

## HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

# SERVICE MANUAL

# DA-4 CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
<b>KV-30HS510</b>	RM-Y191	US	SCC-S66N-A
<b>KV-30HS510</b>	RM-Y191	CANADA	SCC-S70M-A
<b>KV-30HS510</b>	RM-Y191	HAWAII	SCC-S69E-A

**ORIGINAL MANUAL ISSUE DATE: 8/2003**

 :UPDATED ITEM

REVISION DATE	REVISION TYPE	SUBJECT
8/2003		No revisions or updates are applicable at this time.
3/2004		Removed landing settings information from 2-1. Beam Landing instructions (Don't apply to this model.) Replaced page 12 with page 12. Added complete Service Data List, Replaced pages 25-27 with pages 25-A through 25-FF. (Note: Removed page 26)
12/2004		Replaced page 27 with page 27. Corrected D Board Schematic Page 2. Replaced page 33 with page 33. Corrected ID Map Table for KV-30HS510 Replaced page 27 with page 27.

TRINITRON® COLOR TELEVISION  
**SONY**

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KV-30HS510



RM-Y191

TRINITRON® COLOR TELEVISION

# SONY®

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## SPECIFICATIONS

	KV-30HS510
<b>Power Requirements</b>	120V, 60Hz
<b>Number of Inputs/Outputs</b>	
<b>Video</b> <sup>1)</sup>	4
<b>S Video</b> <sup>2)</sup>	3
<b>Y, P<sub>B</sub>, P<sub>R</sub></b> <sup>3)</sup>	2
<b>Audio</b> <sup>4)</sup>	7
<b>Audio Out</b> <sup>5)</sup>	1
<b>DVI-HDTV</b> <sup>6)</sup>	1
<b>Control-S (In/Out)</b>	YES
<b>Speaker Output (W)</b>	7.5W x 2 15W Subwoofer
<b>Power Consumption (W)</b>	
<b>In Use (Max)</b>	280W
<b>In Standby</b>	1W
<b>Dimensions (W x H x D)</b>	
mm	898 x 576 x 564 mm
in	35 <sup>3/8</sup> x 22 <sup>3/4</sup> x 22 <sup>1/4</sup> in
<b>Mass</b>	
kg	76 kg
lbs	167 lbs 9 oz

- 1) 1 Vp-p 75 ohms unbalanced, sync negative  
2) Y: 1 Vp-p 75 ohms unbalanced, sync negative  
C: 0.286 Vp-p (Burst signal), 75 ohms  
3) Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;  
P<sub>B</sub>: 0.7 Vp-p, 75 ohms  
P<sub>R</sub>: 0.7 Vp-p, 75 ohms  
4) 500 mVrms (100% modulation), Impedance: 47 kilohms  
5) More than 408 mVrms at the maximum volume setting (variable)  
More than 408 mVrms (fix); Impedance (output): 2 kilohms  
6) 3.3V T.M.D.S., 50 ohms  
The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.

**Television system**

American TV standard, NTSC

**Channel coverage**

VHF: 2-13/ UHF: 14-69/ CATV: 1-125

**Picture tube**FD Trinitron<sup>®</sup> tube**Visible screen size**

30-inch picture measured diagonally

**Actual screen size**

32-inch measured diagonally

**Antenna**

75 ohm external terminal for VHF/UHF

**Supplied Accessories**

Remote Commander RM-RM-Y191

Two Size AA (R6) Batteries

**Optional Accessories**

AV Cable: VMC-810/820/830 HG

Audio Cable: RKC-515HG

Component Video Cable: VMC-10/30 HG


TV Stand: SU-30HS1


Memory Stick Media: 8MB (MSA-8A); 16MB (MSA-16A);  
32MB (MSA-32A); 64MB (MSA-64A); 128MB (MSA-128A)

**TruSurround™**  
by SRS 

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### **SRS (SOUND RETRIEVAL SYSTEM)**

The  SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

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*Design and specifications are subject to change without notice.*

## WARNINGS AND CAUTIONS

### CAUTION


Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

### WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.



### SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and  mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.


### ATTENTION!!

Après avoir déconnecté le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au châssis métallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.



### ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifiés par une trame et par une marque  sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel ou dans des suppléments publiés par Sony. Les réglages de circuit dont l'importance est critique pour la sécurité du fonctionnement sont identifiés dans le présent manuel. Suivre ces procédures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecté.

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

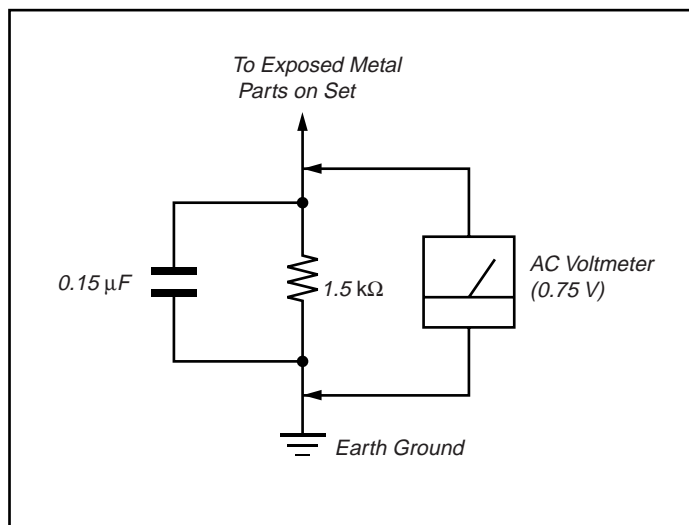


Figure A. Using an AC voltmeter to check AC leakage.

### Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

### How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

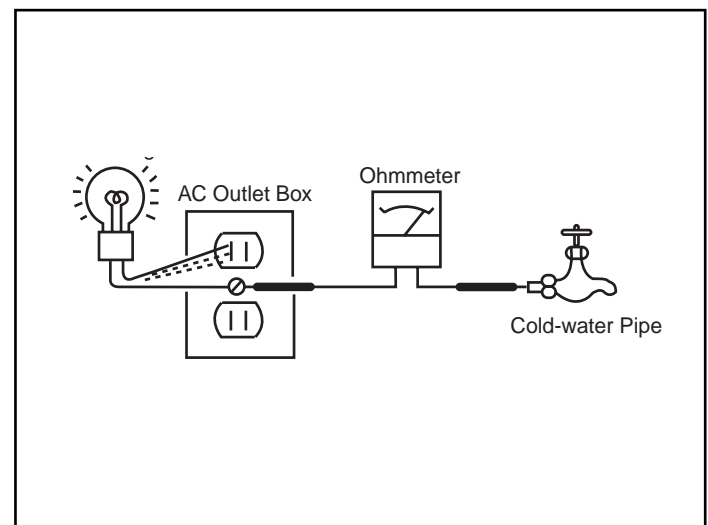


Figure B. Checking for earth ground.

## SELF-DIAGNOSTIC FUNCTION



The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

### Diagnostic Test Indicators

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", an error has occurred.

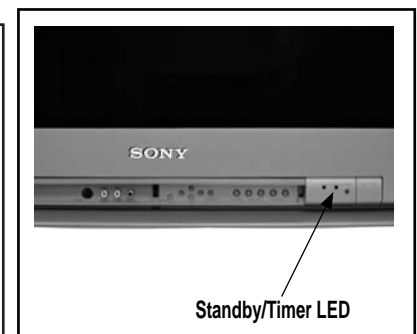
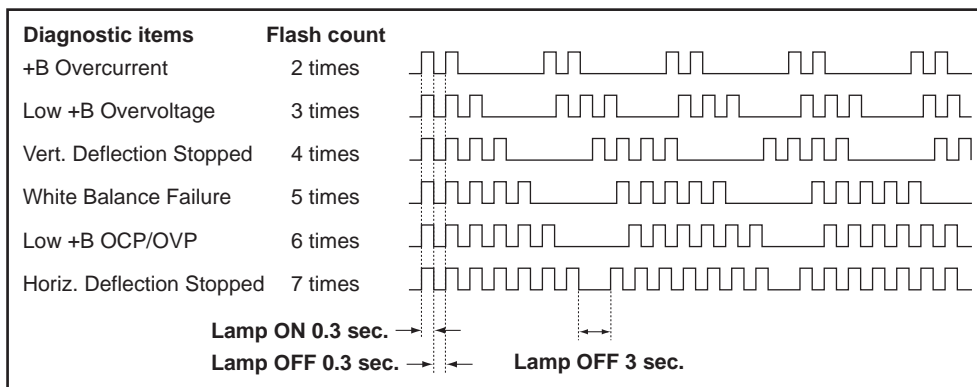
Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	—	<ul style="list-style-type: none"> <li>Power cord is not plugged in.</li> <li>Fuse is burned out (F501). (A Board)</li> </ul>	<ul style="list-style-type: none"> <li>Power does not come on.</li> <li>No power is supplied to the TV.</li> <li>AC Power supply is faulty.</li> </ul>
+B Overcurrent (OCP)*	2 times	2:0 or 2:1	<ul style="list-style-type: none"> <li>H.OUT (Q5030) is shorted. (D Board)</li> <li>+B PWM (Q5003) is shorted. (D Board)</li> </ul>	<ul style="list-style-type: none"> <li>Power does not come on.</li> <li>Load on power line shorted.</li> </ul>
Low +B Overvoltage (OVP)	3 times	3:0 or 3:1	<ul style="list-style-type: none"> <li>IC6505 is faulty. (D Board)</li> </ul>	<ul style="list-style-type: none"> <li>Has entered standby mode.</li> </ul>
Vertical Deflection Stopped	4 times	4:0 or 4:1	<ul style="list-style-type: none"> <li>15V is not supplied. (D Board)</li> <li>IC5004 is faulty. (D Board)</li> </ul>	<ul style="list-style-type: none"> <li>Has entered standby mode after Horizontal raster.</li> <li>Vertical deflection pulse is stopped.</li> <li>Power line is shorted or power supply is stopped.</li> </ul>
White Balance Failure (not balanced)	5 times	5:0 or 5:1	<ul style="list-style-type: none"> <li>Video OUT (IC9001-IC9003) is faulty. (CX Board)</li> <li>CRT drive (IC2801) is faulty. (B Board)</li> <li>G2 is improperly adjusted.**</li> </ul>	<ul style="list-style-type: none"> <li>No raster is generated.</li> <li>CRT cathode current detection reference pulse output is small.</li> </ul>
LOW +B OCP/OVP (overcurrent/overvoltage)***	6 times	6:0 or 6:1	<ul style="list-style-type: none"> <li>+5 line is overloaded. (A, B, M Boards)</li> <li>+5 line is shorted. (A, B, M Boards)</li> <li>IC504 is faulty. (A Board)</li> </ul>	<ul style="list-style-type: none"> <li>No picture</li> </ul>
Horizontal Deflection Stopped	7 times	7:0 or 7:1		<ul style="list-style-type: none"> <li>No picture</li> </ul>

\* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

\*\* Refer to Screen (G2) in Section 2-5 of this manual.

\*\*\* If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

### Display of Standby/Timer LED Flash Count



\* One flash count is not used for self-diagnostic.

### Stopping the Standby/Timer LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

### Self-Diagnostic Screen Display

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

## To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:

**DISPLAY** ➡ Channel **5** ➡ Sound volume **-** ➡ Power ON.

## SELF DIAGNOSIS

2: +B OCP	0
3: +B OVP	0
4: VSTOP	0
5: AKB	1
6: LOWB	0
7: H-STOP	0
101: WDT	24

— Numeral “0”

means that no fault was detected.

└─ Numeral “1”

means a fault was detected one time only.

### Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

## Clearing the Result Display

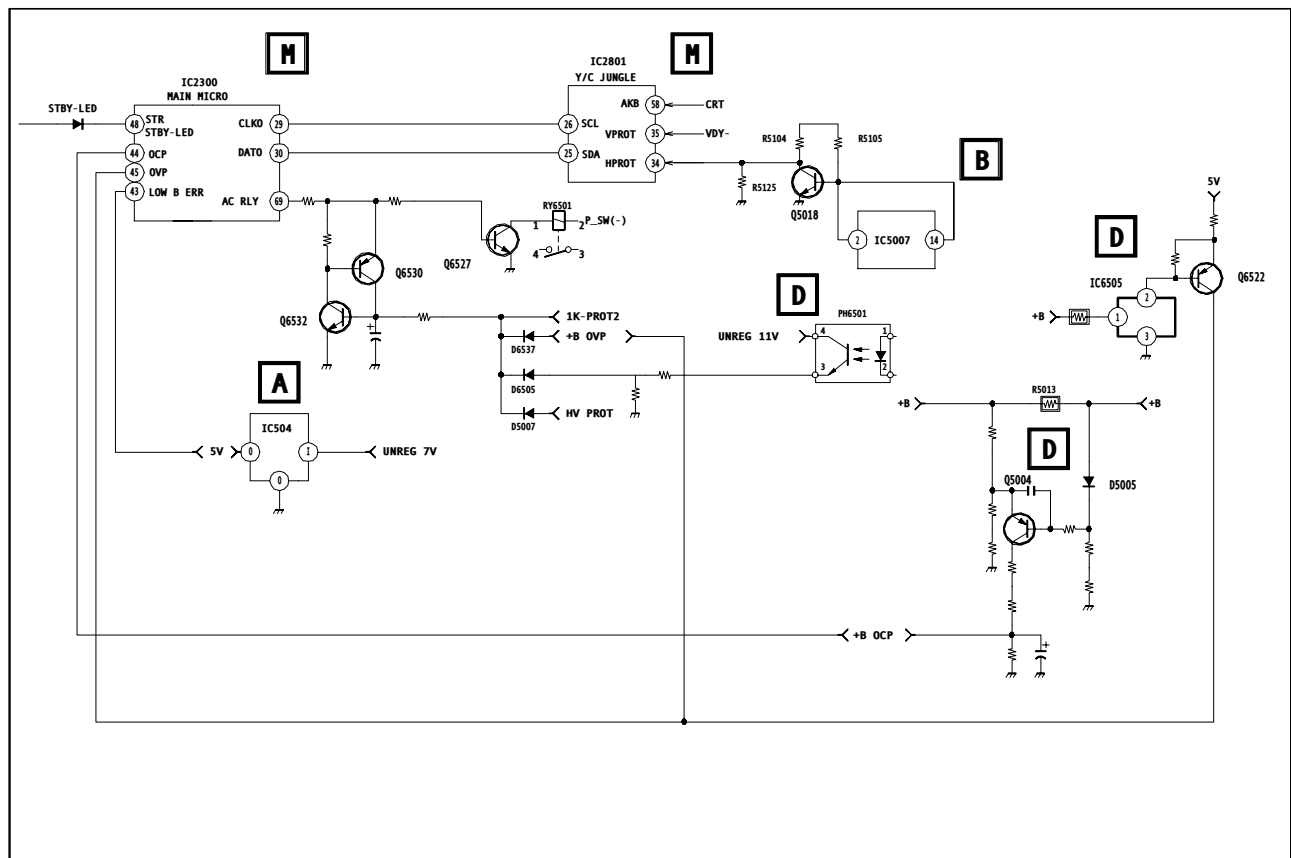
To clear the result display to "0", press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Channel **8** ➔ **ENTER**

## Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

### Self-Diagnostic Circuit



**+B overcurrent (OCP)**

Occurs when excessive current flows through R5013. The increase in voltage across R5013 causes the output of Q5004 to go high, and this high signal goes to the micro.

**+B overvoltage (OVP)**

IC6505 detects +B OVP condition and turns on Q6522. This sends a high signal to the micro and also shuts down the AC relay.

**V-STOP**

Occurs when an absence of the vertical deflection pulse is detected by pin 24 of IC2801 (B Board). Power supply will shut down when waveform interval exceeds 2 seconds.

**White Balance Failure**

If the RGB levels\* do not balance within 2 seconds after the power is turned on, this error will be detected by IC2801. TV will stay on, but there will be no picture.

\*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

**Low B OCP/OVP**

Occurs when set 5V is out.

**Horizontal Deflection Stopped**

Occurs when either:

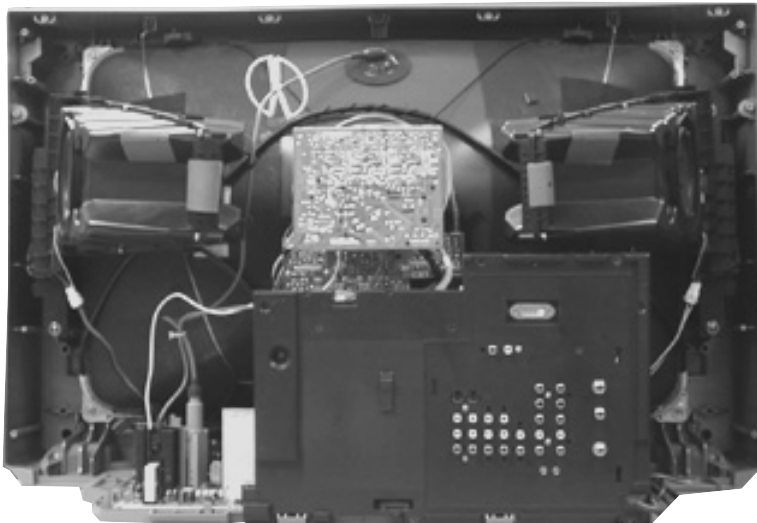
- 1) a +B overcurrent is detected (IC5007), or
- 2) overheating is detected (Thermistor TH5002).

## SECTION 1: DISASSEMBLY

### 1-1. REAR COVER REMOVAL

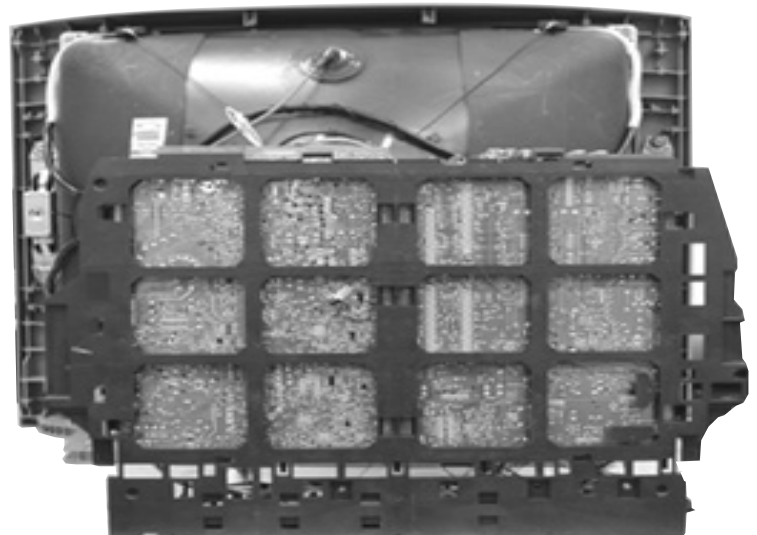


### 1-2. CHASSIS ASSEMBLY REMOVAL



- ① Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.
- ② Pull up and rotate both the A and D Boards in order to service the unit.

### 1-3. SERVICE POSITION

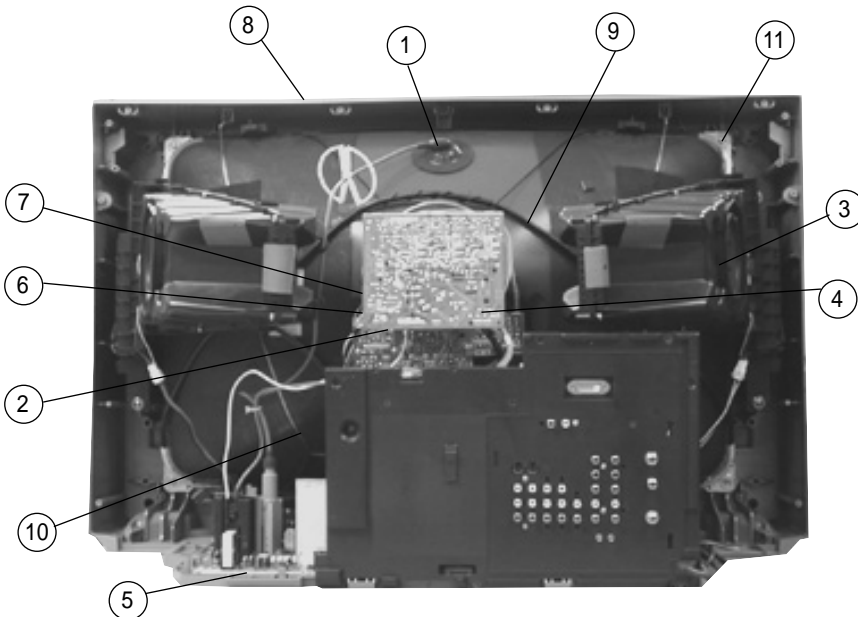
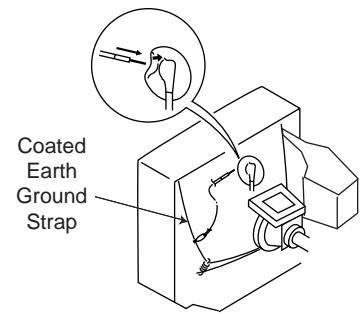


- ① **CAUTION!** - Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.
- ② Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.
- ③ Pull up and rotate both the A and D Boards in order to service the unit.

## 1-4. PICTURE TUBE REMOVAL

### WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



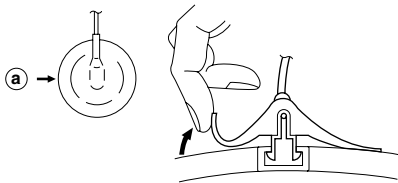
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the Speaker Assemblies.
4. Remove the CX Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the neck assembly fixing screw and remove.
7. Loosen the deflection yoke fixing screw and remove.
8. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
9. Remove the degaussing coils.
10. Remove the CRT grounding strap and spring tension devices.
11. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

## ANODE CAP REMOVAL PROCEDURE

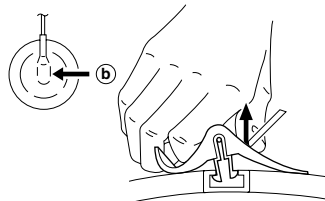
**WARNING:** High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

**NOTE:** After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield or carbon painted on the CRT.

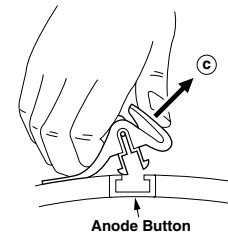
### REMOVAL PROCEDURES



Turn up one side of the rubber cap in the direction indicated by arrow a .



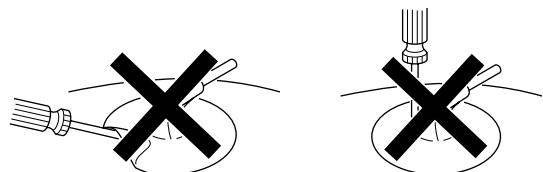
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow b .



When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow c .

### HOW TO HANDLE AN ANODE CAP

1. Do not use sharp objects which may cause damage to the surface of the anode cap.
2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



## SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

VIDEO MODE: STANDARD (RESET)

**Perform the adjustments in order as follows:**

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

**Test Equipment Required:**

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

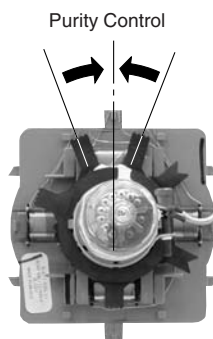
### 2-1. BEAM LANDING

#### Preparation:

- Use cross hatch signal to rough adjust focus, G2 and then input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.
- Confirm data in service mode to match with CRT screen size.
  - CXA2170D-4
  - CXA8070 (Should be set to default)
  - VCEN, VPIN, HTPZ, PPHA, VANG, LANG, VBOW, LBOW (Should be set to default value).
- Set all user compensations to their default settings.

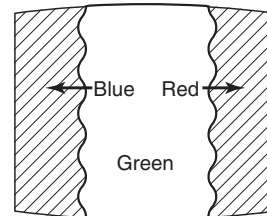
**NOTE: Do not use the hand degausser; it magnetizes the CRT .**

1. Input white pattern from pattern generator. Set the PICTURE control to maximum, and the BRIGHTNESS control to standard.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



3. Input a green pattern from the pattern generator.

4. Move the deflection yoke backwards, (See Figure 1) and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.

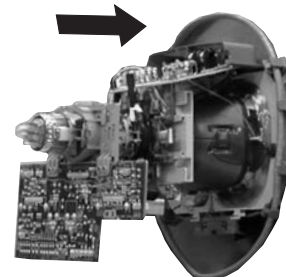


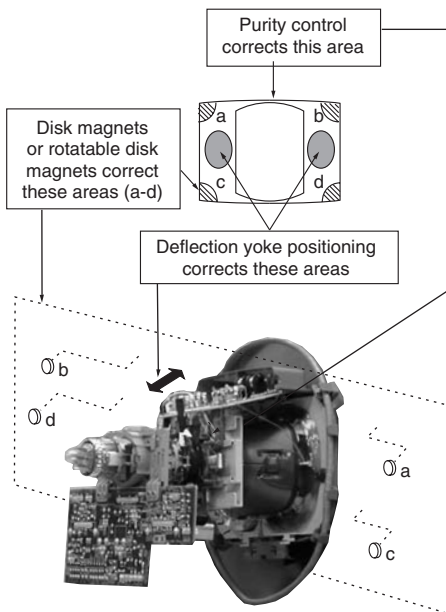
Figure 1

6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.

## 8. Set corner landing adjustments.

To get optimal landing, adjust LT, LB, RT, and RB with Service Data +/- 70.

**NOTE:** If landing adjustment exceeds the limit, as a last resort you can adjust it by using the disk magnets.



## 2-2. V-PIN AND V-CEN ADJUSTMENT

### Preparation:

- Input a cross hatch pattern signal.
- Set Video Mode to: Standard (Reset)
- For all 4X3 CRT, VPIN data has separate register for full and V-compress. Adjust both modes if needed.

1. Adjust service mode CXA2170D-1 05 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
2. Adjust service mode CXA2170D-1 06 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.

3. Horizontal lines should be straight from left to right. Check landing for side effect.

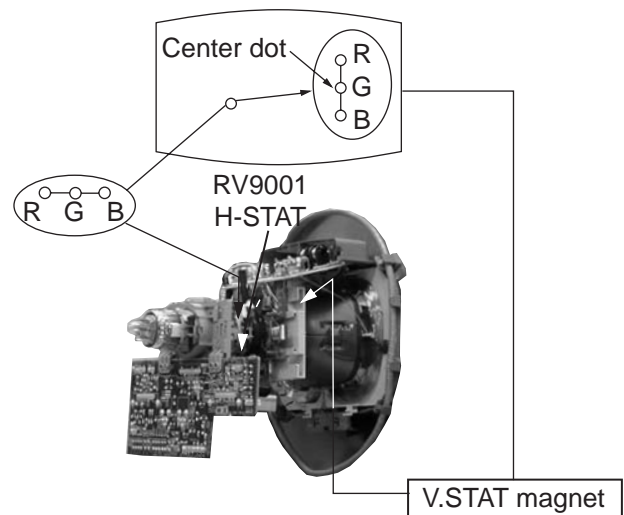
## 2-3. CONVERGENCE

### Preparation:

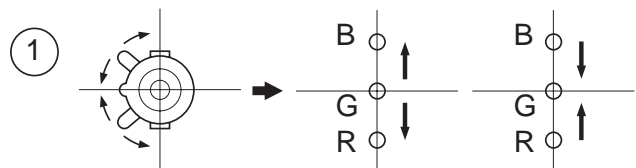
- Set the CONTRAST and BRIGHTNESS control to standard (reset).
- Input a cross hatch pattern signal.

### 2-3.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

1. Disconnect the dynamic convergence before adjusting static convergence (CN903), except for minor touch-up.
2. Adjust H.STAT convergence, RV9001, to converge red, green, and blue dots in the center of the screen.
3. Connect dynamic convergence back.
4. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



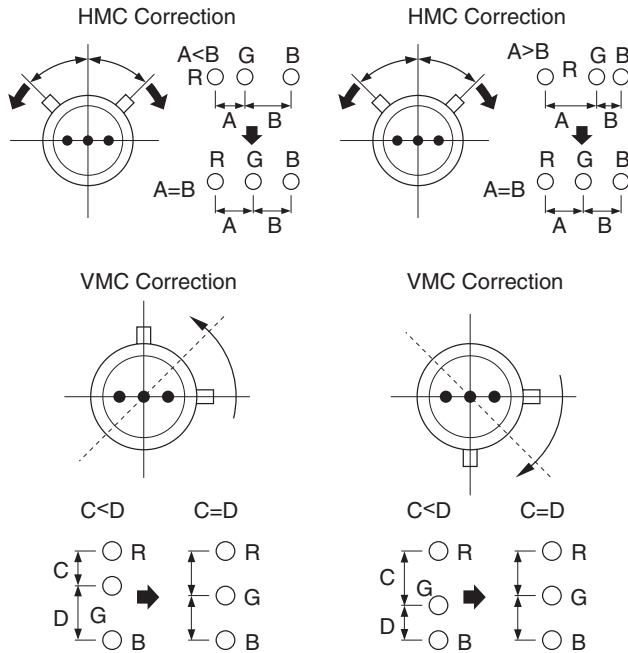
5. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



## 2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

The respective dot positions result from moving each magnet interact. Perform the following adjustments while tracking.

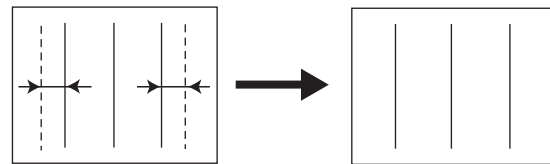
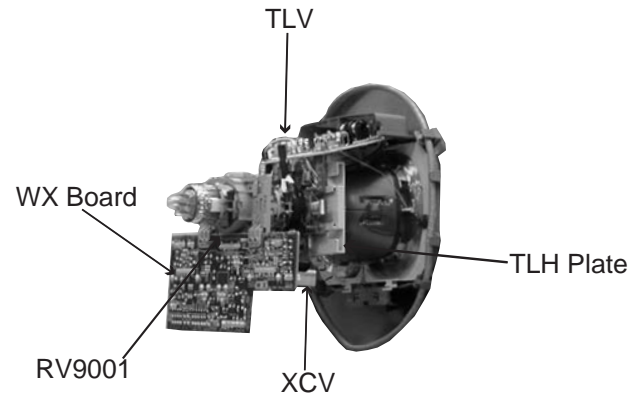
1. Use the BMC tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).



## 2-3.3. TLH PLATE ADJUSTMENT

### Preparation:

- Input a cross hatch pattern signal.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting the TLH Plate on the deflection yoke.



B R R B TLH+  
(R)(B) (B)(R) TLH-

1.

Adjust XCV core to balance X axis.

2. Adjust the vertical red and blue convergence with V.TILT (TLV VR).

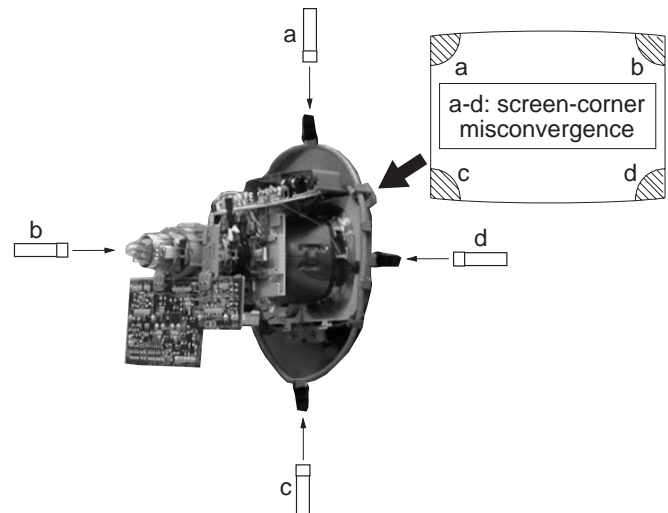
**Note:** Perform adjustments while tracking Item 1.

## 2-3.4. SCREEN-CORNER CONVERGENCE

### Preparation:

- Input a cross hatch pattern signal.

1. Affix a permalloy assembly corresponding to the misconverged areas.



## 2-4. FOCUS ADJUSTMENT

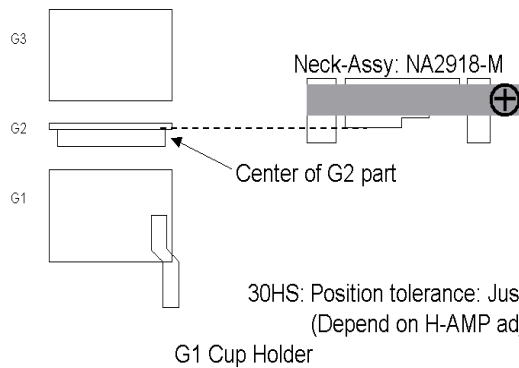
Confirm neck assembly Z axis position

1. Input a dot signal.
2. Set Video Mode to STANDARD.
3. Input a HD monoscope signal.
4. Confirm center focus with focus VR.

### NECK ASSEMBLY

**30HS CRT: 32RVE (Regular Pitch and Square Fannel)**

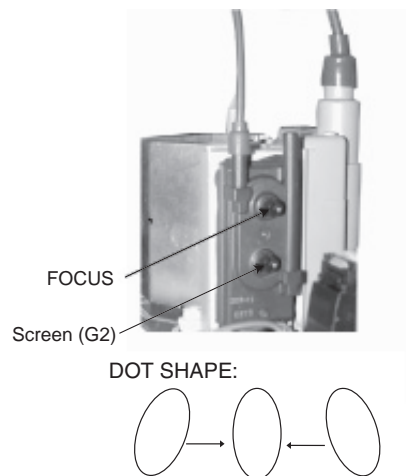
Neck NA2918-M (NOT VA-Type, Square pin assignment, VPIN harness)



30HS: Position tolerance: Just position  $\pm 1.0\text{mm}$  (Target)  
(Depend on H-AMP adjustment)

G1 Cup Holder

**NOTE:** Just position is the adjustment position from the center location indicated.



**NOTE:** The Neck Assembly tilt can effect dot shape.

**NOTE:** Changing neck assembly position will affect corner convergence.

### 2-4.1. DYNAMIC FOCUS/DYNAMIC QUADRA-POLE DATA

Normally, no adjustments are necessary for these systems. If for some reason the data is lost, use the initial data.

## 2-5. SCREEN (G2)

1. Input composite white field into Video 1.
2. Set to service mode and adjust as follows:

(Fig 1)		Operation Procedure	Standards	Notes
CXA2170P-2 PICO 1	0	1) In Full mode, apply changes in Fig 1  2) Mount G2 adjustment jig. Adjust Cathode voltage if the standard is not met. Standard varies by CRT size.  3) Adjust G2 by Flyback Transformer (T8001).  4) Return data changes in 1) to original condition.	170 +/- 5 (Vdc)	30HS510

## 2-6. PICTURE QUALITY ADJUSTMENTS

### Preparation:

- Set PRO MODE (Reset).
- Input signal (480i Composite):
    - Color Bar Video 75 IRE (White) 75% modulation 7.5% Set-up.
    - Color Bar RF 75 IRE (White) 75% modulation 7.5% Set-up.

### 2-6.1. VIDEO INPUT - SUB CONTRAST ADJUSTMENT

#### Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: Single (PRO MODE Reset).
- Picture: Max

- Set to Service Mode and adjust as follows:

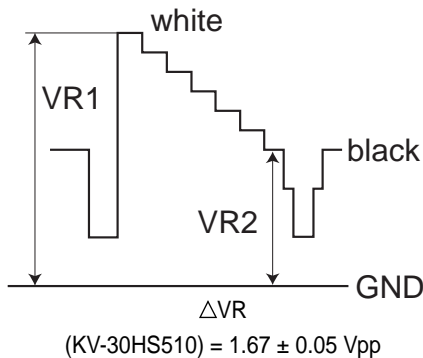
#### 2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

- Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the C Board.
- Adjust contrast according to the service mode item: SPIO.

#### 2170-P4

NO.	Name	Control Function
04	SPIO	SUB-CONT



- Write data from Step 3 above, into memory.

### 2-6.2. VIDEO INPUT - SUB HUE/SUB COLOR ADJUSTMENT

#### Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
  - Set picture mode: Single (PRO MODE Reset).
  - Picture: Max
- Set to Service Mode and adjust as follows:

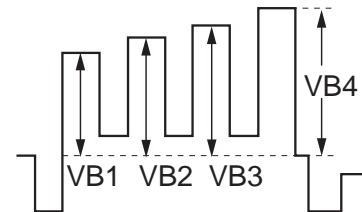
#### 2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

- Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the C Board.
- Adjust color according to Service Mode for SCLO.
- Adjust color according to Service Mode for SHUO.

#### 2170P-4

NO.	Name	Control Function
05	SCLO	SUB-COLOR
06	SHUO	SUB-HUE



COLOR:  $VB1 \leq VB4$  ( $=20 \pm 40$  mV)

HUE:  $VB2 \leq VB3$  ( $=20 \pm 40$  mV)

- Write data into memory.

### 2-6.3. RF INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

#### Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
  - Set picture mode: P&P (PRO MODE).
  - Picture: Max
- Set to Service Mode and adjust as follows:

#### 2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

- Connect an oscilloscope to Pin 1 of CN9001 (R. DRV) on the C Board.
- Adjust MAIN (left) side contrast according to service mode for SCON.

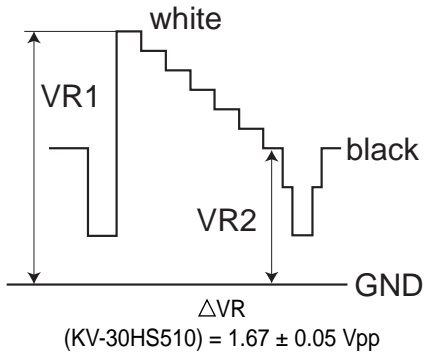
#### 2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT

4. Adjust SUB (right) side contrast according to Service Mode for SCON.

### 2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT



5. Write data from Steps 3 - 4 above, into memory.

6. Set Service Mode

## 2-6.4. RF INPUT - SUB HUE/SUB COLOR ADJUSTMENT

### Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

### 2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the C Board.

3. Adjust MAIN (left) side color according to Service Mode for SCOL.

4. Adjust MAIN (left) side color according to Service Mode for SHUE.

### 2103-1

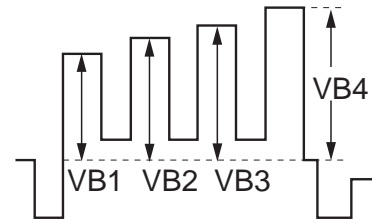
NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

5. Adjust SUB (right) side color according to Service Mode for SCOL.

6. Adjust SUB (right) side color according to Service Mode for SHUE.

### 2103-2

NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE



COLOR:  $VB1 \leq VB4$  ( $=20 \pm 40$  mV)

HUE:  $VB2 \leq VB3$  ( $=20 \pm 40$  mV)

7. Write data into memory.

## 2-7. WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

### Preparation

- Input an all white 480I (15.734 KHz) signal into the VIDEO 1 input terminal to perform the White Balance (highlight, cut-off) adjustments. The parameters to adjust are in the CXA2170P in Service Mode.

WHITE BALANCE ADJUSTMENT PROCEDURE (Composite White Field signal into Video 1)

Highlight and Cutoff Specification	OLD Calibration	NEW Calibration
	9300K + 8MPCD	10900K + 2MPCD
	R/G = 1.000 B/G = 1.000	R/G = 1.007 B/G = 1.139
	x = 0.284 y = 0.288	x = 0.276 y = 0.284

Condition	Adjustment Registers (Service Mode)	WB701 Preset	32RVE	R/G 0.775	B/G 0.915
-----------	--	--------------	-------	--------------	--------------

Condition	Adjustment Registers (Service Mode)	RDRV (fixed)  GDRV  BDRV  RCUT (fixed)  GCUT  BCUT	2170P-1-06
			2170P-1-07
			2170P-1-08
			2170P-1-09
			2170P-1-10
			2170P-1-11

Picture Mode: Single (Full) Picture Setting: Pro  Color Temp: Neutral  Picture: 63 write to 80h:01h:FFh Color: 0 write to 80h:03h:00h	
---	--

## 2-7.1. COLOR OFFSET ADJUSTMENT PROCEDURE

### Preparation:

- Input an all white (30 IRE) signal to the specified input.
- Adjust the white balance using the specified registers.

#### VIDEO 1

##### CXA2103-1

NO.	Name	Control Function
20	CBO1	CB OFFSET
21	CRO1	CR OFFSET

#### VIDEO 5

##### CXA2103-1

NO.	Name	Control Function
20	CBO1	CB OFFSET
21	CRO1	CR OFFSET

#### VIDEO 7 - DVI

##### CXA2103-1

NO.	Name	Control Function
22	CBO2	CB01 (FROM VIDEO 5) - 5
23	CRO2	CR01 (FROM VIDEO 5) -4

## 2-8. H RASTER CENTER ADJUSTMENT

### Preparation:

- Input a monoscope signal.
- Set to NTSC (DRC) mode.

1. Set to Service Mode and adjust as follows:

##### CXA2150P-2

NO.	Name	Control Function	Avg. Data
06	AGNG	AGING 1, AGING 2	2

##### CXA2150D-2

NO.	Name	Control Function	Avg. Data
02	HSIZ	Horiz Size	45

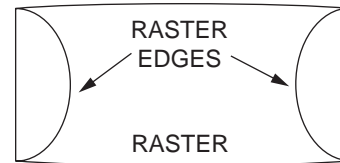
##### CXA2150D-3

NO.	Name	Control Function	Avg. Data
00	HBLK	Blanking Enable	0

2. Reduce HSIZ to see sides of raster.
3. Adjust H-Center with CXA2170D-2.
4. Adjust to the best screen position with H-CENT and write data.

5. Restore aging, HSIZ and HBLK to original condition.

### Raster Edge Equal:



## 2-9. PICTURE DISTORTION ADJUSTMENTS

### 2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

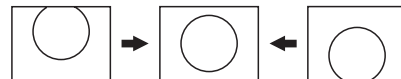
1. Face the picture tube in an east-west direction. (For best condition.)
2. Complete V-PIN and V-CEN adjustments first (A2170-D1 06 V-PIN, A2170-D1 05 V-CEN).
3. Input a monoscope and crosshatch signal. Adjust the picture distortion with the following service parameters to balance the best condition for these two signals.

**NOTE:** Make sure that the picture size is within specs. Vertical size is  $11.8 \pm 0.1$  sq. and horizontal size is  $15.8 \pm 0.1$  sq.

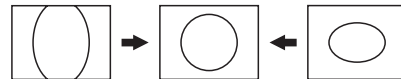
4. Write data into memory before changing modes.

### CXA2170D-1

#### Item 0. VPOS (V-POSITION)



#### Item 1. VSIZ (V-SIZE)



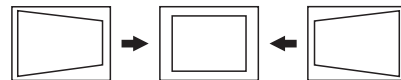
#### Item 3. VLIN (V-LINE)



#### Item 4. VSCO (VS-COR)

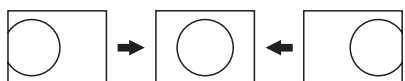


#### Item 9. HTPZ (H-TRAPEZOID)

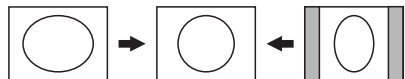


**CXA2170D-2**

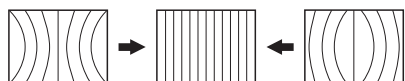
Item 1. HPOS (H-POSITION)



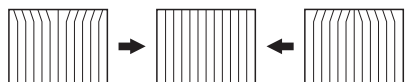
Item 2. HSIZ (H-SIZE)



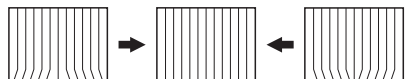
Item 5. PIN (PIN AMP)



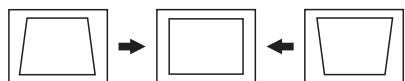
Item 7. UCP (UP COR PIN COR)



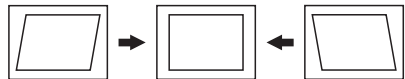
Item 8. LCP (LOW CO PIN COR)



Item 14. PPHA (PIN PHASE)



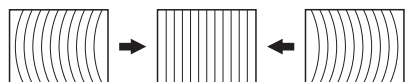
Item 15. VANG (AFC-ANGLE)



Item 16. LANG (L-ANGLE)



Item 17. VBOW (AFC-BOW)



Item 18. LBOW (L-BOW)

**2-9.2. 1080i HD MODE ADJUSTMENT**

1. Input a 1080i cross-hatch signal and an HD monoscope signal that contains overscan markers.
2. Adjust the raster position per Section 2-8., only if this procedure was not performed for full mode.
3. Adjust the geometry similar to Full DRC mode. Vertical size is  $11.7 \pm 0.1$  sq. and horizontal size is  $15.6 \pm 0.1$  sq., if monoscope signal is available. Otherwise, set the Vertical size to  $91.0 \pm 0.6\%$  scan and Horizontal size as  $91.0 \pm 0.6\%$  scan.
4. Use the following register to adjust the horizontal parameter:

A2150-D2	01	HPOS
----------	----	------

**NOTE:** If necessary, touch up the geometry using the data register listed above for Full mode. Check NTSC full mode for side effect and balance.

5. Write the data into memory before changing modes.

**2-9.3. TWIN MODE/FAVORITE/INDEX/  
NORMAL MODE GEOMETRY  
CONFIRMATION**

TWIN mode and FAVORITE mode use the FULL mode adjustment data. The key point for TWIN mode adjustment is the blue border appearance. The left border on the left picture should not be visible when the left picture is selected. Similarly, the right border on the right picture should not be visible when the right picture is selected. Balance the HPOS or HSIZ data for FULL and TWIN mode.

For INDEX mode, however, no clipping of the picture edge should be visible for the small sampled pictures on the right side. Adjust HSIZ/HPOS to balance FULL and INDEX mode for this. Avoid displaying the edge of the raster in FULL or FAVORITE mode.

## SECTION 3: SAFETY RELATED ADJUSTMENTS

### 3-1. PREPARATION BEFORE CONFIRMATION

Standard..... 135.3  $\pm$  1 VAC

Check Condition:

AC input voltage: 120 ( $\pm$  2) VAC

Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.

Setting Mode: ..... Full mode

Signal Input: ..... Cross-hatch of NTSC

Initial Setting: ..... Standard Reset condition

Confirm Point: ..... Across CN5509 PIN 9 for B+ of D Board

#### 3-1.1 HOLD-DOWN OPERATION CONFIRMATION

1. Using an external DC power supply, apply 5.3  $\pm$  0.5 Vdc between Pin 2 of CN507 (jig connector) and ground (Pin 8); confirm set goes to hold-down (main power relay click).
2. Remove the external DC power supply.

### 3-2. B+ MAX CONFIRMATION

Standard ..... 135.3  $\pm$  1 VAC

Check Condition:

AC input voltage: 120 ( $\pm$  2) VAC

Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.

Setting Mode: ..... Full mode

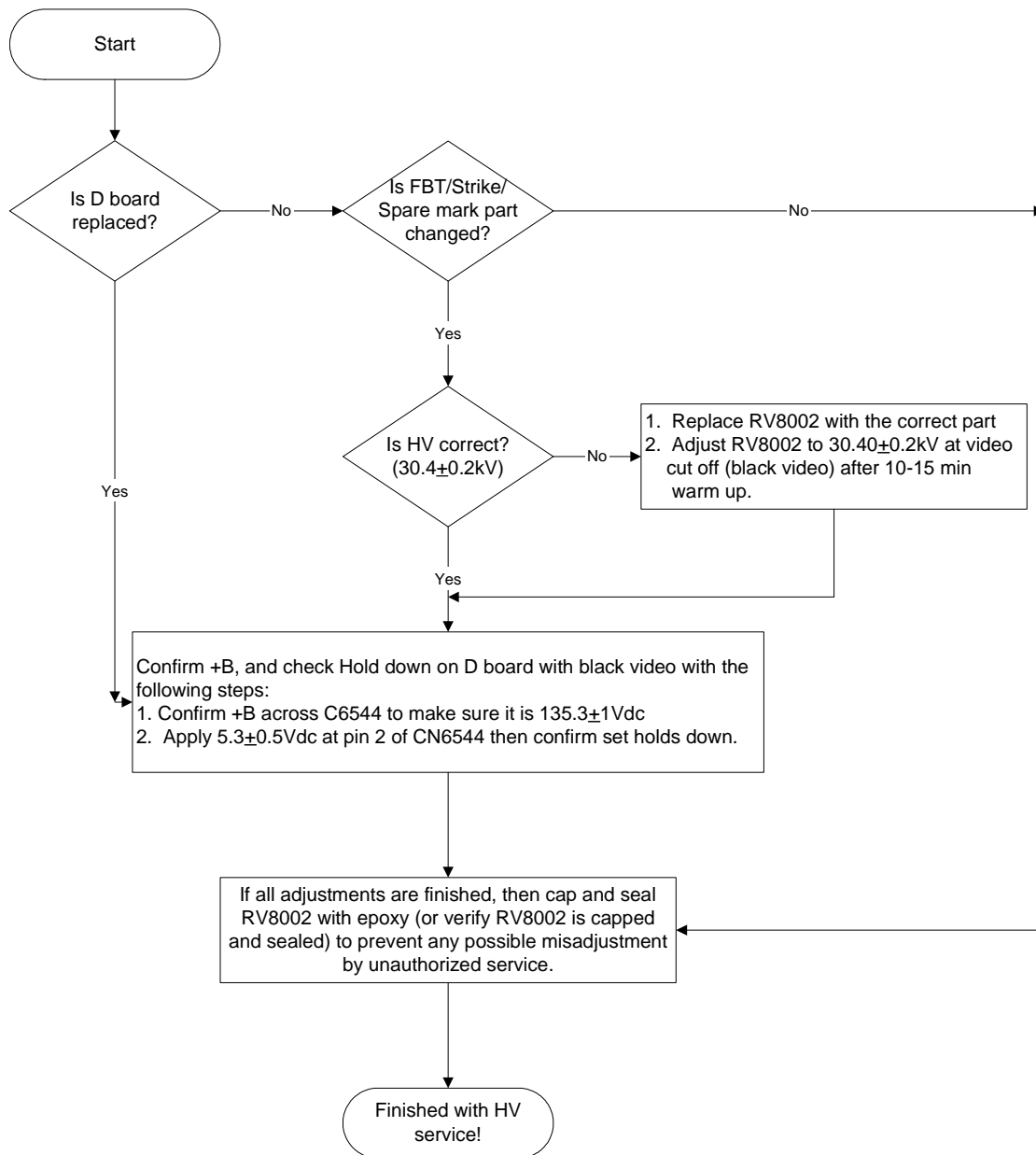
Signal Input: ..... Cross-hatch of NTSC

Initial Setting: ..... Standard Reset condition

Confirm Point: ..... Across CN5509 PIN 9 for B+ of D Board

## 3-3. HV SERVICE FLOWCHART

## KV-30HS510 HV SERVICE FLOW CHART



## SECTION 4: CIRCUIT ADJUSTMENTS

### ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y191) to perform the circuit adjustments in this section.

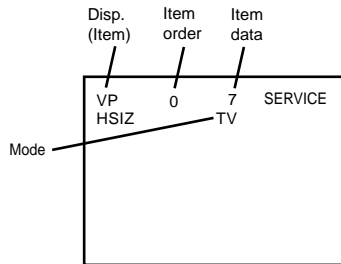
Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

#### 4-1. SETTING SERVICE ADJUSTMENT MODE

- Standby mode (Power off).
- Press the following buttons on the remote commander within a second of each other:

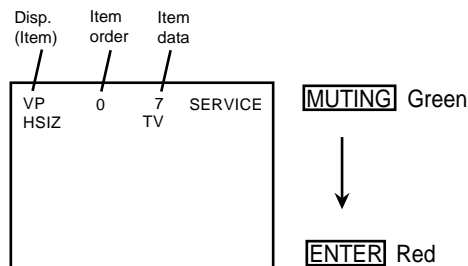
**DISPLAY** → Channel **5** → Sound Volume **+** → Power

##### 4-1.1. SERVICE ADJUSTMENT MODE IN

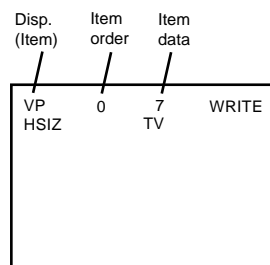


- The CRT displays the item being adjusted.
- Press **1** or **2** on the Remote Commander to select the item.
- Press **3** or **6** on the Remote Commander to change the data.
- Press **MUTING** then **ENTER** to write into memory.

##### 4-1.2. SERVICE ADJUSTMENT MODE MEMORY



- Press **MUTING** then **ENTER** on the Remote Commander to initialize.



- DO NOT turn off set until **SERVICE** appears.

#### 4-1.3. READING THE MEMORY

- Enter into Service Mode.
- Press **0** on the Remote Commander.
- Press **ENTER** to read memory.

#### 4-1.4. ADJUSTING THE PICTURE

- Enter into Service Mode
- Press **2** or **5** on the remote to select the device item.
- Press **1** or **4** on the remote to select an item.
- Press **3** or **6** on the remote to change the data.
- Press **MUTING** then **ENTER** to write into memory.

#### 4-1.5. RESETTING THE DATA

Note: Be careful when using the remote! It will clear and re-initialize ALL NVM data including deflection adjustment data if not reset properly as follows:

#### 4-1.6. RESETTING THE MID NVM DATA

- Enter into Service Mode.
- Press **7**, then **JUMP**, and then press **ENTER** on the remote.

#### 4-1.7. RESETTING THE SYSTEM NVM DATA

- Enter into Service Mode.
- Press **7**, then **9**, and then press **ENTER** on the remote.

#### 4-1.8. COPY FUNCTION

How to use copy function for DA4 Chassis:

- After writing your adjusted data into NVM **MUTING** then **ENTER**, copy can be made by changing copy data from **0** to **1** then **MUTING**, **ENTER** again.

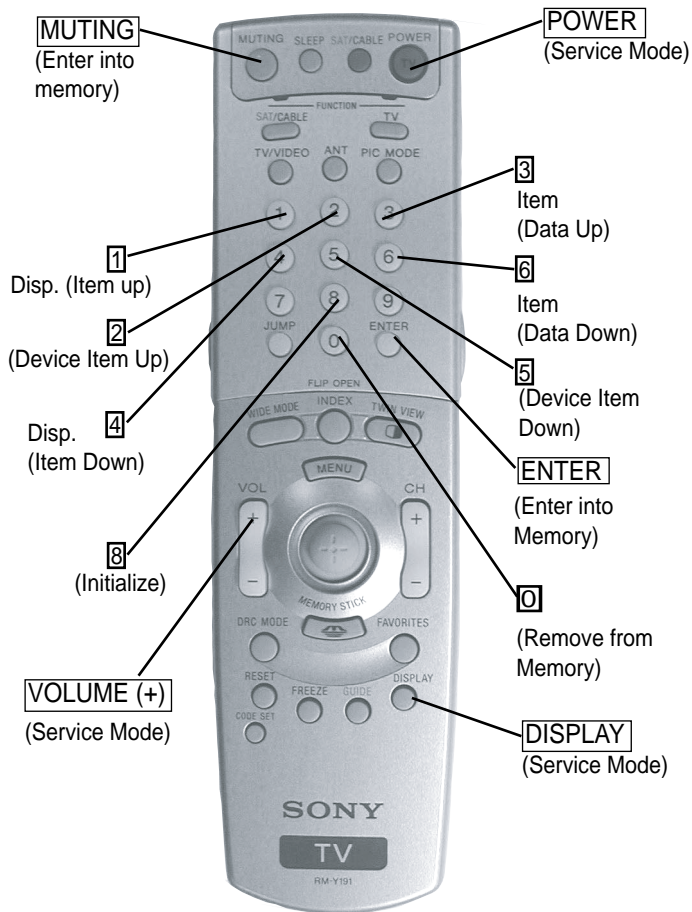
WARNING: DO NOT copy data before writing your corrected data in NVM. If data is copied before writing corrected data, old data will be copied.

- CPY1: DF/DQP DATA (CXA2170D-4 Item 6)
- CPY2: CONVERGENCE DATA (D-CONV Item 13)

## 4-2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again to confirm they were adjusted.

## 4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



**RM-Y191**

## 4-4. SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data								
VERSION	0	VER	0,1	0								
	1	DMY1	0-255	0								
3D_COMB	0	NRMD	0-3	0								
	1	CLKS	0-3	1								
	2	NSDS	0-3	0								
	3	MSS	0-3	0								
	4	KILS	0-3	1								
	5	FRZE	0, 1	0								
	6	EXCS	0-3	1								
	7	CDL	0-7	4								
				NRMD(0)	NRMD(1)	NRMD(2)	NRMD(3)					
	8	DYCO	0-15	2	2	2	2					
	9	DYGA	0-15	10	10	10	10					
	10	DCCO	0-15	5	5	5	5					
	11	DCGA	0-15	5	5	5	5					
	12	WSC	0-2	1								
	13	WSS	0, 1	0								
				Vivid	Standard	Movie	Pro					
	14	VAPG	0-7	4	2	2	0					
	15	VAPI	0-31	4	4	4	0					
	16	TEST	0, 1	0								
				Vivid	Standard			Movie		Pro		
				RF	CV/YC	RF	CV/YC	RF	CV/YC	RF	CV/YC	
	17	YPFT	0-3	3	3	3	3	3	3	3	3	
	18	YPFG	0-15	9	5	7	5	5	6	5	6	
	19	SEDC	0, 1	0								
	20	SEDY	0, 1	1								
	21	YHCO	0-3	1								
	22	YHCG	0, 1	0								
	23	SYSP	0-3	0								
	24	TES2	0-7	0								

Category Name	No.	Item Name	Range	Initial Data				
2103_1				480i	Others			
	0	YLEV	0-62	34	20			
	1	CLEV	0-63	40	17			
				RF	CV/YC			
	2	SCON	0-15	9	9			
	3	SCOL	0-15	2	2			
	4	SHUE	0-15	11	5			
	5	YDLY	0-3	0	0			
				RF	CV	V5	YC	
	6	SHAP	0-15	9	8	4	8	
	7	SHF0	0-3	0	0	3	0	
	8	PREO	0-3	3	3	3	3	
	9	BPF0	0-3	3				
	10	BPFQ	0-3	0				
				RF	CV/YC			
	11	BPSW	0, 1	1	0			
	12	TRAP	0, 1	0				
	13	LPF	0, 1	1				
				RF	CV/YC	Others		
	14	AFCG	0, 1	1	0	0		
	15	CDMD	0-3	3	3	3		
	16	SSMD	0-3	0	0	0		
				RF	CV/YC	V5/V6	DVI	
	17	HMSK	0, 1	0	1	1	0	
	18	HALI	0, 1	0				
				RF	CV/YC	V5/V6	DVI	
	19	PPHA	0-15	7	7	7	0	
				RF	V5/V6			
	20	CBO1	0-63	34	36			
	21	CRO1	0-63	32	38			
	22	CBO2	0-63	32				
	23	CRO2	0-63	32				
				Single	BLK(0)	BLK(1)	BLK(2)	BLK(3)
	24	ATPD	0-3	0	1	1	2	1
	25	DCTR	0-3	0	2	1	3	2

Category Name	No.	Item Name	Range	Initial Data	
2103_2				DRC	VDO
	0	YLEV	0-63	41	35
	1	CLEV	0-63	31	42
				RF	CV/YC
	2	SCON	0-15	9	9
	3	SCOL	0-15	2	2
	4	SHUE	0-15	11	5
	5	YDLY	0-3	0	0
	6	SHAP	0-15	6	8
	7	SHF0	0-3	0	0
	8	PREO	0-3	3	3
	9	BPF0	0-3	3	
	10	BPFQ	0-3	0	
				RF	CV/YC
	11	BPSW	0, 1	1	0
	12	TRAP	0, 1	0	
				DRC	VDO
	13	LPF	0, 1	1	0
				RF	CV/YC
	14	AFCG	0, 1	1	0
	15	CDMD	0-3	3	3
	16	SSMD	0-3	0	0
	17	HMSK	0, 1	0	1
	18	HALI	0, 1	0	
				RF	CV/YC
	19	PPHA	0-15	7	7
	20	CBO1	0-63	34	
	21	CRO1	0-63	32	

Category Name	No.	Item Name	Range	Initial Data									
2170P_1				CV/YC	480i	VDO	MS	PT					
	0	YOSW	0, 1	1	0	0	0	0					
	1	TCOF	0, 1	0									
				DRC	DRC	V5/V6	V5/V6	V5/V6	DVI	DVI			
				CV/YC	480i	480p	720p	1080i	480p VGA	720p 1080i	PT 1080i	MS	
	2	YOF	0-15	0	15	7	7	7	7	7	7	7	
	3	CBOF	0-63	31	31	31	31	31	31	31	31	31	
	4	CROF	0-63	31	31	31	31	31	31	31	31	31	
	5	SBRT	0-63	31									
	6	RDRV	0-63	32									
	7	GDRV	0-63	35									
	8	BDRV	0-63	34									
	9	RCUT	0-63	32									
	10	GCUT	0-63	35									
	11	BCUT	0-63	18									
				WARM	COOL								
	12	WBSW	0, 1	1									
	13	SBOF	0-15	7	7								
	14	RDOF	0-63	31	31								
15	GDOF	0-63	34	31									
16	BDOF	0-63	45	34									
17	RCOF	0-63	31	31									
18	GCOF	0-63	37	31									
19	BCOF	0-63	63	34									
20	DCOL	0-3	1										

Category Name	No.	Item Name	Range	Initial Data	
2170P_2	0	PICO	0, 1	1	
	1	RGBS	0-7	7	
	2	BLKB	0-3	3	
	3	RGBL	0-3	2	
	4	YLMT	0-3	3	
	5	AGNG	0-3	0	
	6	AKBO	0, 1	0	
				Other	PT
	7	CLPP	0-3	3	3
	8	CLPG	0, 1	0	0
	9	CLPS	0, 1	0	0
	10	PPAD	0-7	3	3
	11	SYNP	0, 1	0	0
	12	HVBT	0, 1	0	

Category Name	No.	Item Name	Range	Initial Data															
2170P_3				ViVid Mode															
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single		
					1	1	1	1	3	3	1	1	1	3	3	3	3	2	
	0	SYSM	0-3		7														
	1	VMLV	0-15		1	0	0	0	0	0	0	0	0	0	0	0	0	3	
	2	VMCR	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	3	VMLM	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0	
	4	VMF0	0-3		5	5	5	5	13	13	5	5	5	13	13	13	13	10	
	5	VMDL	0-15		2	2	2	1	1	1	2	1	0	1	1	1	1	2	
	6	SHOF	0-3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	7	SHF0	0, 1		0	3	2	0	3	3	2	0	0	3	3	3	3	3	
	8	PROV	0-3		1	0	1	0	0	1	1	0	1	0	1	0	0	0	
	9	F1LV	0-3		2	3	3	3	3	3	3	3	3	3	3	3	3	3	
	10	LTLV	0-3		1	1	1	0	1	0	1	0	1	1	0	1	1	1	
	11	LTMD	0, 1		0	0	0	0	3	3	0	0	0	3	3	3	3	0	
	12	CTLV	0-3		0	0	0	1	1	1	0	1	0	1	1	1	1	1	
	13	UBOF	0-7		2	2	2	2	2	2	2	2	2	2	2	0	0	2	
	14	UCOF	0-7		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	15	UHOF	0-3	7	11	15	19	23	27	31	35	44	39	43	48	52	56		
	16	MIDE	0-63																
					Standard Mode														
				RF		CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single		
				1		1	1	1	3	3	1	1	1	3	3	3	3	2	
	0	SYSM	0-3	7															
	1	VMLV	0-15	1		0	0	0	0	0	0	0	0	0	0	0	0	3	
	2	VMCR	0-3	3		3	3	3	3	3	3	3	3	3	3	3	3	3	
	3	VMLM	0-3	1		1	1	1	0	0	1	1	1	0	0	0	0	0	
	4	VMF0	0-3	5		5	5	5	13	13	5	5	5	13	13	13	13	10	
	5	VMDL	0-15	3		3	2	0	1	1	2	0	0	1	1	1	1	2	
	6	SHOF	0-3	1		1	1	1	1	1	1	1	1	1	1	1	1	1	
	7	SHF0	0, 1	0		3	2	0	3	3	2	0	0	3	3	3	3	3	
	8	PROV	0-3	0		0	1	1	0	0	1	1	1	0	0	0	0	0	
	9	F1LV	0-3	2		2	2	3	3	3	2	3	3	3	3	3	3	3	
	10	LTLV	0-3	1		1	1	1	1	1	1	1	1	1	1	1	1	1	
	11	LTMD	0, 1	0		0	0	0	3	3	0	0	0	3	3	3	3	0	
	12	CTLV	0-3	2		2	2	0	2	2	2	0	0	2	2	2	2	1	
13	UBOF	0-7	1	1		2	2	1	2	2	2	2	1	2	0	0	0		
14	UCOF	0-7	0	0		0	0	0	0	0	0	0	0	0	0	0	0		
15	UHOF	0-3	5	10	14	18	22	26	30	34	44	38	42	47	51	55			
16	MIDE	0-63																	

Category Name	No.	Item Name	Range	Initial Data														
2170P_3				Movie Mode														
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	0	SYSM	0-3		1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15		7													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15		5	5	5	5	13	13	5	5	5	13	13	13	13	10
	6	SHOF	0-3		1	1	1	1	1	1	1	1	0	1	1	1	1	1
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	2	1	3	3	2	1	0	3	3	3	3	3
	9	F1LV	0-3		0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3		1	1	1	2	1	1	1	2	3	1	1	1	1	1
	11	LTMD	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	2	2	0	0	0	2	2	2	2	0
	13	UBOF	0-7		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	UCOF	0-7		0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		3	9	13	17	21	25	29	33	44	37	41	46	50	54
				Pro Mode														
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	0	SYSM	0-3		1	1	2	1	3	3	2	1	1	3	3	3	3	2
	1	VMLV	0-15		7													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	0	0	0	0	0	0	1	0	0	0	0	0
	5	VMDL	0-15		5	5	8	5	13	13	8	5	5	13	13	13	13	10
	6	SHOF	0-3		1	2	2	0	2	1	2	0	0	2	1	2	2	1
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	2	3	1	3	3	3	1	0	3	3	3	3	3
	9	F1LV	0-3		0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3		0	0	0	0	0	0	0	0	3	0	0	0	0	0
	11	LTMD	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	UBOF	0-7		2	2	2	1	1	1	2	1	0	1	1	1	1	2
	14	UCOF	0-7		0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		0	8	12	16	20	24	28	32	44	36	40	45	49	53

Category Name	No.	Item Name	Range	Initial Data			
2170P_3				Vivid	Standard	Movie	Pro
	17	VM	0-3	3	3	1	0
	18	VMH	0-15	15	15	12	12
	19	VMM	0-15	10	10	8	8
	20	VML	0-15	6	6	4	4
	21	VGAP	0-15	5			
	22	VGAS	0-15	0			
	23	VGAB	0-15	0			
	24	VGAC	0-15	0			
	25	VGAV	0-15	5			

Category Name	No.	Item Name	Range	Initial Data																
2170P_4				MS		Other														
	0	YCON	0, 1	0	1															
				DRC	VDO(V5/V6)	VDO (DVI)	MS	PT												
	1	SPIC	0-15	7	7	7	0	7												
	2	SCOL	0-63	31	31	31	31	31												
	3	SHUE	0-63	31	31	31	31	31												
	4	SPIO	0-15	7																
	5	SCLO	0-15	7																
	6	SHUO	0-15	7																
				Vivid	Standard	Movie	Pro													
	7	UPIC	0-63	63	48	39	31													
	8	UBRT	0-63	31	31	31	31													
	9	UCOL	0-63	35	31	31	31													
	10	UHUE	0-63	31	31	31	31													
	11	USHP	0-63	24	29	31	31													
	12	UTMP	0-3	2	1	0	1													
	13	RYP	0-15	8																
	14	RYB	0-15	9																
	15	GYR	0-15	9																
	16	GYB	0-15	6																
	17	GAMM	0-3	Vivid	RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin		
				Standard	3	2	3	3	3	3	2	3	3	3	3	3	3	3		
				Movie	1	1	1	1	1	1	1	1	1	1	1	1	1	2		
			Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			GAMM (0)	GAMM (1)	GAMM (2)	GAMM (3)														
18	GAMS	0-15	0	8	8	8														
19	GAMR	0-15	0	4	8	12														
20	GAMG	0-15	0	4	8	12														
21	GAMB	0-15	0	4	8	12														

Category Name	No.	Item Name	Range	Initial Data															
2170P_4																			
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin	
	22	BLK	0-3	Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
				Standard	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2
				Movie	0	0	1	0	1	0	1	0	0	1	0	0	0	1	0
				Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				BLK (0)	BLK (1)	BLK (2)	BLK (3)												
	23	DCTR	0-15	0	3	7	12												
	24	APED	0-3	0	0	1	2												
	25	DSBO	0-15	7	7	7	7												
				0	1	0	1												
	26	IDSW	0-7	0															
				BLK (0)	BLK (1)	BLK (2)	BLK (3)												
	27	ABLM	0-3	0	1	0	1												
				Others	Small Pic														
	28	ABLT	0-15	0	7														
29	SPOF	0-31	0																
			BLK (0)	BLK (1)	BLK (2)	BLK (3)													
30	DPSQ	0, 1	1	1	1	1	1												
31	LRGB	0-15	3																

Category Name	No.	Item Name	Range	Initial Data											
2170D_1	0	VPOS	0-63	31											
	1	VSIZ	0-63	30											
				1080iFULL	Others										
	2	VSZO	0-63	0	0										
				WideZoom	Others										
	3	VLIN	0-15	8	8										
	4	VSCO	0-15	10	9										
	5	VCEN	0-63	31											
				1080Vcomp											
				480Vcomp	Others										
	6	VPIN	0-63	15	15										
	7	MVPN	0-3	0											
	8	NSCO	0-63	31											
	9	HTPZ	0-31	15											
	10	MHTZ	0-3	0											
				WideZoom						Zoom	Others				
	11	ZOOM	0, 1	1						1	0				
				WideZoom							Zoom	480FULL	1080FULL	1080Vcomp	480Vcomp
	12	APSW	0, 1	1							1	1	0	0	1
	13	ASPT	0-63	22							43	3	0	47	3
	14	SCRL	0-63	31	31	31	31	31	31						
				WideZoom	Others										
	15	UVLN	0-15	4	0										
	16	LVLN	0-15	4	0										

Category Name	No.	Item Name	Range	Initial Data							
2170D_2											
	0	HCNT	0-63	31							
				1080FULL	Others						
				1080Vcomp							
	1	HPOS	0-63	31	31						
				WideZoom	Others						
	2	HSIZ	0-63	49	40						
	3	SLIN	0-15	10	4						
	4	MPIN	0-15	10	8						
	5	PIN	0-63	40	31						
				WideZoom	Zoom	480FULL	1080FULL	1080Vcomp			
								480Vcomp			
	6	PINO	0-15	7	7	7	7	7			
				WideZoom	Others						
	7	UCP	0-63	31	35						
	8	LCP	0-63	31	35						
	9	UXCG	0-3	0							
	10	LXCG	0-3	0							
	11	UXCP	0-3	2							
	12	LXCP	0-3	2							
	13	XCPP	0, 1	0							
				WideZoom	Others						
	14	PPHA	0-63	20	20						
	15	VANG	0-63	31							
	16	LANG	0-63	31							
	17	VBOW	0-63	31							
18	LBOW	0-63	31								

Category Name	No.	Item Name	Range	Initial Data							
2170D_3											
	0	HBLK	0, 1	1							
				1080FULL							
				1080Vcomp		Others					
	1	LBLK	0-63	50		51					
	2	RBLK	0-63	31		27					
				WideZoom		Zoom		480FULL		480Vcomp	
								1080FULL		1080Vcomp	
	3	VBLK	0, 1	0		0		1		1	
				WideZoom		Zoom		480FULL		1080FULL	
								1080Vcomp		480Vcomp	
	4	TBLK	0-15	12		7		4		4	
	5	BBLK	0-15	15		7		8		6	
								14		8	
				1080FULL							
				1080Vcomp		Others					
	6	AFCM	0-3	2		3					
				1080Vcomp							
				480Vcomp		Others					
	7	JUMP	0, 1	0		0					
				WideZoom		Zoom		480Vcomp		1080Vcomp	
								480FULL		1080FULL	
	8	VDJP	0, 1	1		1		0		1	
				1080Vcomp							
				1080FULL		Others					
	9	VDST	0, 1	0		0					
			WideZoom		Zoom		480FULL		1080FULL		
							480Vcomp		1080Vcomp		
10	AKBT	0-31	15		15		22		16		

Category Name	No.	Item Name	Range	Initial Data	
2170D_4					
				1080Vcomp	
				480Vcomp	Others
	0	QPAM	0-63	30	30
	1	QPAV	0-63	47	47
	2	QPAP	0-15	6	6
	3	QPDC	0-63	33	33
	4	QPDV	0-63	63	63
	5	QPDP	0-15	6	6
	6	CPY1	0, 1	0	
	7	DF	0-63	39	
	8	DQP	0-63	37	
	9	DHMT	0, 1	0	
2170D_5	0	VFRQ	0-3	1	
	1	VON	0, 1	1	
	2	EWDC	0, 1	0	
	3	MS15	0, 1	0	
	4	HFRQ	0-255	80	
	5	HFRX	0-63	25	
	6	VMPS	0, 1	0	
	7	INTR	0, 1	0	
	8	VLNL	0-3	0	
	9	VLNH	0-255	0	
	10	AGCS	0, 1	0	

Category Name	No.	Item Name	Range	Initial Data		
D_CONV				1080Vcomp 480VcompOthers		
	0	YBWU	0-63	31	31	
	1	YBWL	0-63	31	31	
	2	RSAP	0-63	31	31	
	3	RUBW	0-63	31	31	
	4	RUMB	0-63	31	31	
	5	RLBW	0-63	31	31	
	6	RLMB	0-63	31	31	
	7	LSAP	0-63	31	31	
	8	LUBW	0-63	31	31	
	9	LUMB	0-63	31	31	
	10	LLBW	0-63	31	31	
	11	LLMB	0-63	31	31	
		12	CADJ	0-63	29	
	13	CPY2	0, 1	0		
CXA2151	0	MTRX	0-3			
				PT	Others	
	1	GAIN	0-3	7	7	
				V5/V6	DVI	Others
	2	FIXS	0-3	0	0	0
				PT	Others	
	3	CBGN	0-15	7	7	
	4	CRGN	0-15	8	8	
	5	YGN	0-15	8	8	
	6	VTC	0-3	0		
	7	HTC	0, 1			
	8	HWID	0-3	1		
	9	HSEP	0, 1	1		
	10	HMSK	0, 1			
				V5/V6	DVI	Others
		11	FRGB	0, 1	0	0

Category Name	No.	Item Name	Range	Initial Data					
MID1	0	DHPH	0-255	109					
	1	DVPH	0-63	20					
	2	DHAR	0-255	240					
	3	DVAR	0-255	135					
	4	DHPW	0-63	55					
	5	DVPW	0-7	5					
				Single		Twin	Freeze	Favorite	Index
				480i	Others				
	6	DYCD	0-63	3	0	2	2	2	2
				table-0	table-1	table-2	table-3		
	7	DYSD	0-7	7	4	2	1		
				Single				Favorite	Index
				VGA		Others		VGA	VGA
				Normal	Others	Normal	Others		
	8	MDHP	0-255	174	72	156	0	40	41
				Single			Favorite	Index	
				480i/480p	VGA	Others	VGA	VGA	
	9	MDVP	0-255	30	66	0	34	86	
				Single				Favorite	Index
				VGA		Others		VGA	VGA
				Normal	Others	Normal	Others		
	10	MDHS	0-255		204		240	155	119
				Single			Favorite	Index	
				480i/480p	VGA	Others	VGA	VGA	
	11	MDVS	0-255	120	102	135	103	77	
				Twin/Freeze	Favorite	Index			
	12	MLHP	0-255	36	31	31			
	13	MLVP	0-255	8	30	30			

Category Name	No.	Item Name	Range	Initial Data			
MID1							
				Favorite			
	14	SDHP	0-255	167			
	15	SDVP	0-255	5			
	16	SDHS	0-255	115			
	17	SDVS	0-255	79			
	18	PDHP	0-255				
	19	PDVP	0-255				
	20	PDHS	0-255				
	21	PDVS	0-255				
				1080i Single		Others	
	22	DPSW	0, 1	0	0		
	23	MDLO	0-63	12			
				Single			Others
				Normal		Others	MS
	24	BCOL	0-15	1	1	0	1
	25	DYSS	0-3	1			
				Index			
	26	OSDH	0-63	32			
	27	OSDV	0-63	16			

Category Name	No.	Item Name	Range	Initial Data				
MID2								
				Single	480i		YC	
					Normal	Others	Normal	Others
	0	DRHP	0-255		153	120	154	117
	1	DRHS	0-255		162	180	162	180
	2	DRVP	0-63		37	37	37	37
	3	DRVS	0-255		120	120	120	120
				Twin-Left	480i	YC		
	0	DRHP	0-255		146	148		
	1	DRHS	0-255		164	164		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		
				Twin-Right	YC			
	0	DRHP	0-255		153			
	1	DRHS	0-255		164			
	2	DRVP	0-63		57			
	3	DRVS	0-255		110			
				Freeze	480i	YC		
	0	DRHP	0-255		153	153		
	1	DRHS	0-255		162	162		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		
				Favorite-Main	480i		YC	
					Full	Vcomp	Full	Vcomp
	0	DRHP	0-255		140	140	140	140
	1	DRHS	0-255		165	165	165	165
	2	DRVP	0-63		37	57	37	57
	3	DRVS	0-255		120	110	120	110
				Favorite-Sub	YC			
	0	DRHP	0-255		153			
	1	DRHS	0-255		171			
	2	DRVP	0-63		28			
	3	DRVS	0-255		118			

Category Name	No.	Item Name	Range	Initial Data									
MID2													
				Index-Main	480i		YC						
					Full	Vcomp	Full	Vcomp					
	0	DRHP	0-255		140	140	140	140					
	1	DRHS	0-255		165	165	165	155					
	2	DRVVP	0-63		37	57	37	57					
	3	DRVS	0-255		120	110	120	110					
				Index-Sub	YC								
	0	DRHP	0-255		158								
	1	DRHS	0-255		162								
	2	DRVVP	0-63		57								
	3	DRVS	0-255		110								
MID3													
				Single	1080i	720p	480p		480i		VGA		
							Normal	Others	Normal	Others	Normal	Others	
	0	VDHP	0-255		107	137	200	152	76	56	170	170	
	1	VDHS	0-255		240	161	216	240	162	180	229	229	
	2	VDVE	0-63		19	24	37	37	17	17	34	34	
	3	VDVS	0-255		135	180	120	120	60	60	120	120	
				Twin-Left	1080i	720p	480p	480i	VGA				
	0	VDHP	0-255		141	163	192	71	213				
	1	VDHS	0-255		221	147	219	164	209				
	2	VDVE	0-63		43	54	57	27	45				
	3	VDVS	0-255		123	165	110	55	110				
				Twin-Right	YC								
	0	VDHP	0-255		73								
	1	VDHS	0-255		164								
	2	VDVE	0-63		27								
	3	VDVS	0-255		55								
				Freeze	1080i	720p	480p	480i	VGA				
	0	VDHP	0-255		151	169	200	74	212				
	1	VDHS	0-255		218	145	216	162	208				
	2	VDVE	0-63		43	54	57	27	45				
	3	VDVS	0-255		123	165	110	55	110				

Category Name	No.	Item Name	Range	Initial Data									
MID3													
				Favorite-Main	1080i		720p	480p		480i		VGA	
					FULL	Vcomp	-	FULL	Vcomp	FULL	Vcomp	FULL	Vcomp
	0	VDHP	0-255		136	136	158	184	184	68	68	169	169
	1	VDHS	0-255		222	222	148	220	220	165	165	229	229
	2	VDVE	0-63		43	43	55	37	57	17	27	34	34
	3	VDVS	0-255		123	123	165	120	110	60	55	120	120
				Favorite-Sub	YC								
	0	VDHP	0-255		75								
	1	VDHS	0-255		171								
	2	VDVE	0-63		13								
	3	VDVS	0-255		59								
				Index-Main	1080i		720p	480p		480i		VGA	
					FULL	Vcomp	-	FULL	Vcomp	FULL	Vcomp	FULL	Vcomp
	0	VDHP	0-255		136	136	158	184	184	68	68	169	169
	1	VDHS	0-255		222	222	148	220	220	165	165	229	229
	2	VDVE	0-63		43	43	55	37	57	17	27	34	34
	3	VDVS	0-255		123	123	165	120	110	60	55	120	120
				Index-Sub	YC								
	0	VDHP	0-255		76								
	1	VDHS	0-255		162								
	2	VDVE	0-63		27								
	3	VDVS	0-255		55								
					YC	480i	1080i	720p	480p	VGA			
	4	VDVO	0-3	0	0	0	0	0	0	0			
	5	VCPO	0-255	42	42	72	88	122	122	122			
	6	VCWD	0-7	1	1	3	3	3	3	3			
	7	VYCD	0-63	0	0	0	0	0	0	0			
	8	VSTP	0-255	62	62	136	183	126	129	129			
	9	VSTT	0-15	0	0	0	0	0	0	0			
	10	VHSC	0-255	130	130	130	130	130	130	130			
	11	VFRV	0, 1	0	0	0	0	0	0	0			

Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	MHLY	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	1	1	1	2	3	3	2	0	0	2	1	0	0	1	1
	6	MHYL	0-3	0	1	1	1	1	2	2	2	0	1	2	1	0	0	1	2
	7	MHYE	0-7	0	2	2	5	6	7	7	7	0	2	4	7	0	0	7	7
	8	MHYO	0, 1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	MVYR	0-3	0	0	0	0	1	2	2	2	0	1	1	1	0	0	1	2
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	1	1	1	0	0	1	2
	15	MVYE	0-7	0	0	0	0	1	1	1	1	0	3	3	3	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	2
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	0	0	7	7
	8	MHYO	0, 1	1	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	2
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	2	0	0	0
	8	MHYO	0, 1	1	1	1	1	0	0	0	1	0	0	0	0	1	0	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	1	0	0	0
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	1	0	0	0
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	0	POP	0-63	48	49	50	51	52	53	54	55	56							
	1	MHLY	0-3	0	0	0	0	0	0	0	0	0							
	2	MHLC	0-3	0	0	0	0	0	0	0	0	0							
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0							
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0							
	5	MHYR	0-3	0	0	0	0	0	0	0	0	0							
	6	MHYL	0-3	0	0	1	1	1	0	0	0	0							
	7	MHYE	0-7	0	0	4	2	5	0	0	0	0							
	8	MHYO	0, 1	0	0	0	0	0	0	0	0	0							
	9	MHCR	0-3	0	0	0	1	1	0	0	0	0							
	10	MHCL	0-3	0	0	0	1	1	0	0	0	0							
	11	MHCE	0-7	0	0	0	2	2	0	0	0	0							
	12	MHCO	0-1	0	0	0	1	1	0	0	0	0							
	13	MVYR	0-3	0	0	0	0	0	0	0	0	0							
	14	MVYL	0-3	0	0	0	1	1	0	0	0	0							
	15	MVYE	0-7	0	0	0	1	2	0	0	0	0							
	16	MVCR	0-3	0	0	0	1	1	0	0	0	0							
	17	MVCL	0-3	0	0	0	1	1	0	0	0	0							
	18	MVCE	0-7	0	0	0	2	2	0	0	0	0							

Category Name	No.	Item Name	Range	Initial Data
MID5				
				MS
	19	SHLY	0-7	0
	20	SHLC	0-7	0
	21	SVLY	0-7	0
	22	SVLC	0-7	0
	23	SHYR	0-3	0
	24	SHYL	0-3	0
	25	SHYE	0-7	0
	26	SHYO	0, 1	0
	27	SHCR	0-3	0
	28	SHCL	0-3	0
	29	SHCE	0-7	0
	30	SHCO	0, 1	0
	31	SVYR	0-3	0
	32	SVYL	0-3	0
	33	SVYE	0-7	0
	34	SVCR	0-3	0
	35	SVCL	0-3	0
	36	SVCE	0-7	0

Category Name	No.	Item Name	Range	Initial Data		
CXA3506R				480i	Others	
	0	MCON	0, 1	64	64	
	1	SCOR	0-255	128	128	
	2	SCOG	0-255	128	128	
	3	SCOB	0-255	128	128	
	4	RGB	0-255	0	0	
AUDIO						
	0	ASYS	0, 1	0		
	1	TRCV	0-3	1		
	2	BACV	0-3	0		
	3	MDCV	0-3	2		
	4	SVHI	0-7	4		
	5	SVLO	0-7	5		
	6	MDFQ	0-15	10		
	7	LOFQ	0-7	1		
	8	SBAS	0-15	9		
	9	BSFQ	0-15	0		
	10	STRE	0-15	10		
	11	TRFQ	0-15	7		
	12	PSEF	0-15	5		
	13	AGCL	0-15	3		
				TruSurround	Simulated	SteadySound
	14	BBE	0, 1	1	1	1
	15	BBEP	0-7	6	6	6
	16	BBEL	0-7	3	3	3
	17	BB2P	0-7	6	6	6
	18	BB2L	0-7	3	3	3
	19	TRS1	0-7	4		
	20	TRS2	0-7	2		

Category Name	No.	Item Name	Range	Initial Data							
SNNR	0	MODE	0-3	0							
	1	SNNR	0-7	0							
				A	B	C	D	E	F	G	
	2	WSLT	0-255	15	31	45	63	85	110	127	
				0	1	2	3	4	5	6	7
	3	CPFG	0-15	0	0	1	1	2	2	2	3
	4	CPFT	0-3	0	0	0	0	0	0	0	0
	5	CCOR	0-3	0	0	1	1	1	1	1	1
	6	CHCG	0, 1	0	1	1	1	1	1	1	1
	7	CAPG	0-7	0	0	0	0	0	0	0	0
	8	3SHP	0-15	0	0	1	1	2	2	2	3
	9	NYNR	0-15	0	1	2	2	3	3	4	4
	10	NCNR	0-15	0	1	2	2	3	3	4	4
	11	NYMG	0-3	0	0	0	0	0	0	0	0
	12	NCMG	0-3	0	0	0	0	0	0	0	0
	13	NYLT	0-15	0	1	1	2	3	4	6	8
	14	NYNC	0-15	0	0	2	2	3	3	4	4
	15	NYCO	0, 1	0	0	1	1	1	1	1	1
	16	7SHP	0-63	0	0	1	1	3	3	3	4
	17	7YF1	0-3	0	0	1	1	2	2	2	3
	18	7LTI	0-3	0	0	0	0	0	0	0	0
	19	7CTI	0-3	0	0	0	0	0	0	0	0
	20	7VML	0-15	0	0	0	0	0	0	0	0
	21	7VMC	0-3	0	0	1	1	2	2	2	3
	22	MIDD	0-63	0	0	1	1	2	2	2	3

Category Name	No.	Item Name	Range	Initial Data
CCD				
	0	HPRM	0-255	60
	1	HPRS	0-255	60
	2	YSYM	0, 1	0
	3	CCDI	0-7	3
	4	CRIP	0-7	4
	5	PHLD	0, 1	0
	6	CHMK	0-63	54
	7	LANG	0-15	0
	8	DATA	0, 1	0
	9	VCHP	0, 1	0
	10	CLMP	0, 1	0
	11	SYSV	0-7	4
	12	ID1	0, 1	1
	13	ID1M	0-7	1
	14	FPOL	0, 1	0
	15	BWHT	0, 1	0
	16	MESH	0, 1	0
	17	BNBB	0-3	1
	18	BNBG	0-3	1
	19	BNBR	0-3	0
	20	CMP1	0-7	2
	21	CMP2	0-7	5
	22	CMP3	0-7	3
	23	CWHT	0-7	3
	24	VSDW	0, 1	1
	25	BFRQ	0, 1	0
	26	BPOS	0, 1	0
	27	BFRM	0, 1	1
	28	BTIM	0, 1	0

Category Name	No.	Item Name	Range	Initial Data
3DNR				
	0	WHCT	0-63	44
	1	NIQM	0, 1	1
	2	CLPW	0-63	30
	3	CLPP	0-255	80
	4	YHBW	0-255	138
	5	YBKL	0-15	0
	6	YBKO	0, 1	0
	7	MUTE	0, 1	0
	8	YHBS	0-127	40
	9	CHBW	0-255	138
	10	CBKO	0-127	40
	11	CHBO	0, 1	0
	12	VHBL	0-15	0
	13	UHBL	0-15	0
	14	UVDL	0-7	0
	15	YDL	0-7	0
	16	PVDI	0, 1	0
	17	PHDI	0, 1	0
	18	HDW	0-63	16
	19	PVDO	0, 1	0
	20	PHDO	0, 1	0
	21	HST	0-255	54
	22	VDL	0-15	0
	23	VDW	0-15	44
	24	NDET	0-15	1
	25	NVP	0-15	30
	26	NDTS	0-3	80
	27	HROF	0, 1	138
	28	NDGW	0-15	0
	29	UOFS	0-7	1
	30	POT	0-3	0
	31	UVF	0, 1	40
	32	APC	0, 1	138
	33	DAP	0, 1	40

Category Name	No.	Item Name	Range	Initial Data		
3DNR					Others	480i
	34	YLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	35	YST	0, 1	0		
	36	YNT	0, 1	1		
	37	YPL	0, 1	1		
	38	YMV	0, 1	0		
					Others	480i
	39	YCR	0-31	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	40	VOS	0-7	1		
					Others	480i
	41	YMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	42	YEG	0, 1	1		
					Others	480i
	43	YEL	0-15	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	44	YLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	45	CLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	46	CNT	0, 1	1		
	47	CPL	0, 1	1		
					Others	480i
	48	CMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
					Others	480i
	49	CCR	0-31	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	50	CLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
	51	NVSL	0-255	20		
	52	NVSH	0, 1	0		
	53	NHS	0-127	16		
	54	NVEL	0-255	244		
	55	NVEH	0, 1	0		
	56	NHE	0-127	120		
					Others	480i
	57	YNG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	58	COR	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	59	LPF	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	60	YLT	0-15	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	61	YNC	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
					Others	480i
	62	YCO	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
	63	ADTH	0, 1	0		

Category Name	No.	Item Name	Range	Initial Data				
DRCV								
	0	MFVR	0, 1	0				
	1	ISEL	0, 1	1				
					RF	CV/YC	V5/V6 480i	DVI
	2	ORES	0-255	Vivid	128	128	128	128
				Standard	128	128	128	128
				Movie	128	128	133	128
				Pro	128	128	133	128
					RF	CV/YC	V5/V6 480i	DVI
	3	ONCT	0-255	Vivid	128	128	128	128
				Standard	128	128	128	128
				Movie	128	128	128	128
				Pro	128	128	133	133
				CUSTOM1	CUSTOM2	CUSTOM3		
	4	AINI	0-127	0	49	79		
	5	BINI	0-127	24	54	89		
	6	FMAT	0, 1	0				
				Other	RF			
	7	FMTH	0-3	1	1			
	8	FSEL	0, 1	1				
	9	CDLY	0-3	2				
	10	LMIT	0, 1	0				
				Vivid	Standard	Movie	Pro	
	11	LMLV	0-3	2	2	2	2	
	12	LMSL	0, 1	1				
	13	VDLY	0-3	1				
	14	VDPR	0-3	3				
	15	WPLL	0-3	2				
	16	CRCT	0, 1	0				

Category Name	No.	Item Name	Range	Initial Data						
DRCV										
				SNNR						
				1	2	3	4	5	6	7
	17	NRA	0-255	0	0	0	0	0	0	0
	18	NRB	0-255	128	128	128	128	128	128	128
OP	0	DLY1	0-31	4						
	1	DLY2	0-31	12						
	2	DLY3	0-15	7						
	3	OSDH	0-255	20						
	4	HDPT	0, 1	1						
	5	MSBG	0-255	0						
	6	AACK	0-3	2						
	7	RAMW	0-3	0						

## 4-5. ID MAP TABLES

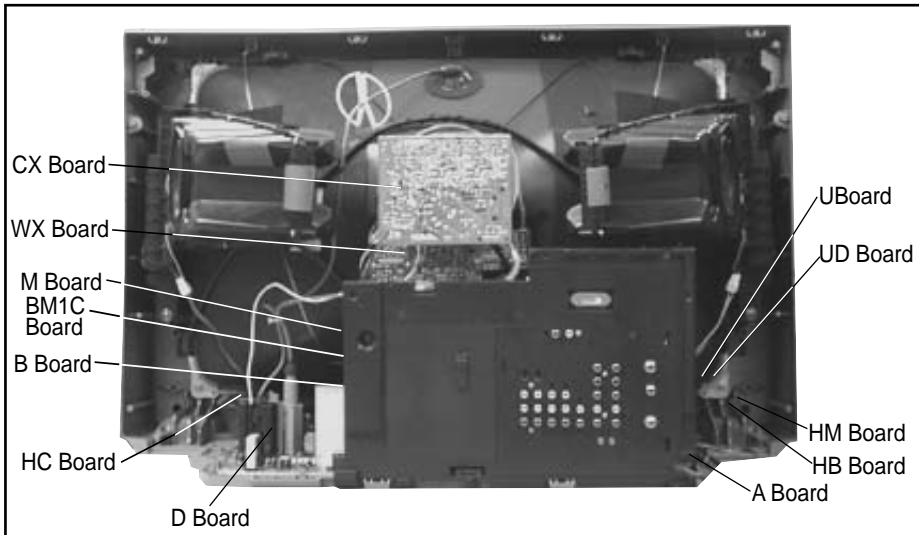



KV-30HS510


ID			30HS510 US	30HS510 CND
	0	ID0	0-255	89
	1	ID1	0-255	255
	2	ID2	0-255	239
	3	ID3	0-255	106
	4	ID4	0-255	203
	5	ID5	0-255	243
	6	ID6	0-255	254
	7	ID7	0-255	17


## SECTION 5: DIAGRAMS


### 5-1. CIRCUIT BOARDS LOCATION



The components identified by shading and  symbol are critical for safety. Replace only with part number specified.

The symbol  indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole  indique une fusible à action rapide. Doit être remplacé par une fusible de même valeur, comme marqué.

### 5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$  :  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.


All resistors are in ohms.  $\text{k}\Omega=1000\Omega$ ,  $\text{M}\Omega=1000\text{k}\Omega$


Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm


Rating electrical power :  $\frac{1}{4}\text{W}$

$\frac{1}{4}\text{W}$  in resistance,  $\frac{1}{10}\text{W}$  and  $\frac{1}{16}\text{W}$  in chip resistance.


 : nonflammable resistor

 : fusible resistor

 : internal component

 : panel designation and adjustment for repair

 : earth ground

 : earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a  $10\text{M}\Omega$  digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.


S : Measurement impossibility.



 : B-line.

 : B-line. (Actual measured value may be different).



 : signal path. (RF)

Circled numbers are waveform references.

The components identified by  in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.


When replacing components identified by  , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (  )	Adjustment (  )
<b>D BOARD:</b> IC6503, IC8001, IC8005, IC8004, IC8104, D8022, R8016, R8079, R8046, R8052, R8019, R8014, R8015, R8017, R8078, R8165, R8072, R8082, R8091, R8095	<b>HV ADJUST</b> RV8002

### REFERENCE INFORMATION

#### RESISTOR

: RN METAL FILM  
 : RC SOLID  
 : FPRD NONFLAMMABLE CARBON  
 : FUSE NONFLAMMABLE FUSIBLE  
 : RW NONFLAMMABLE WIREWOUND  
 : RS NONFLAMMABLE METAL OXIDE  
 : RB NONFLAMMABLE CEMENT  
 :  ADJUSTMENT RESISTOR

#### COIL

: LF-8L MICRO INDUCTOR

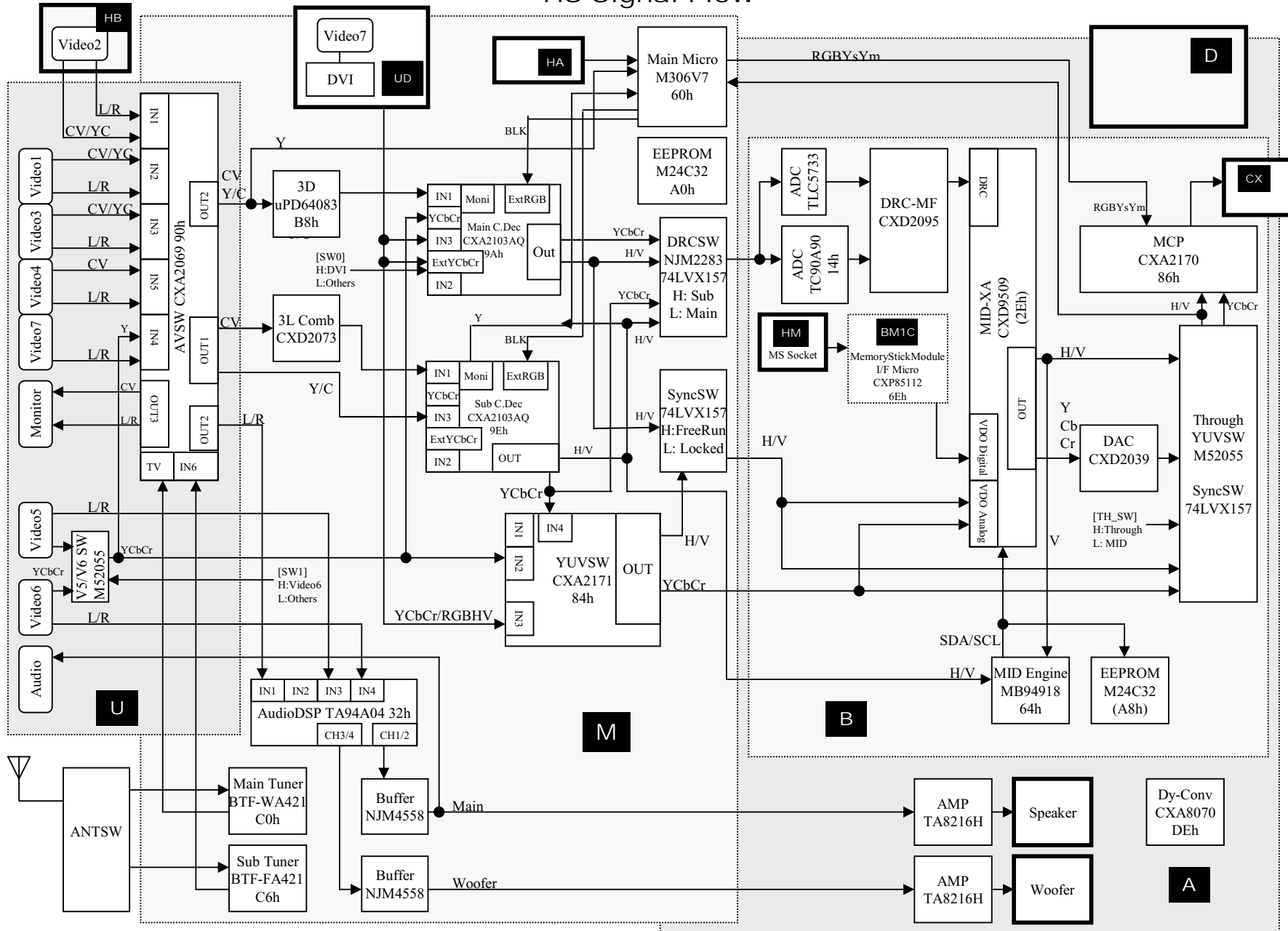
#### CAPACITOR

: TA TANTALUM  
 : PS STYROL  
 : PP POLYPROPYLENE  
 : PT MYLAR  
 : MPS METALIZED POLYESTER  
 : MPP METALIZED POLYPROPYLENE  
 : ALB BIPOLAR  
 : ALT HIGH TEMPERATURE  
 : ALR HIGH RIPPLE

### 5-3. BLOCK DIAGRAMS

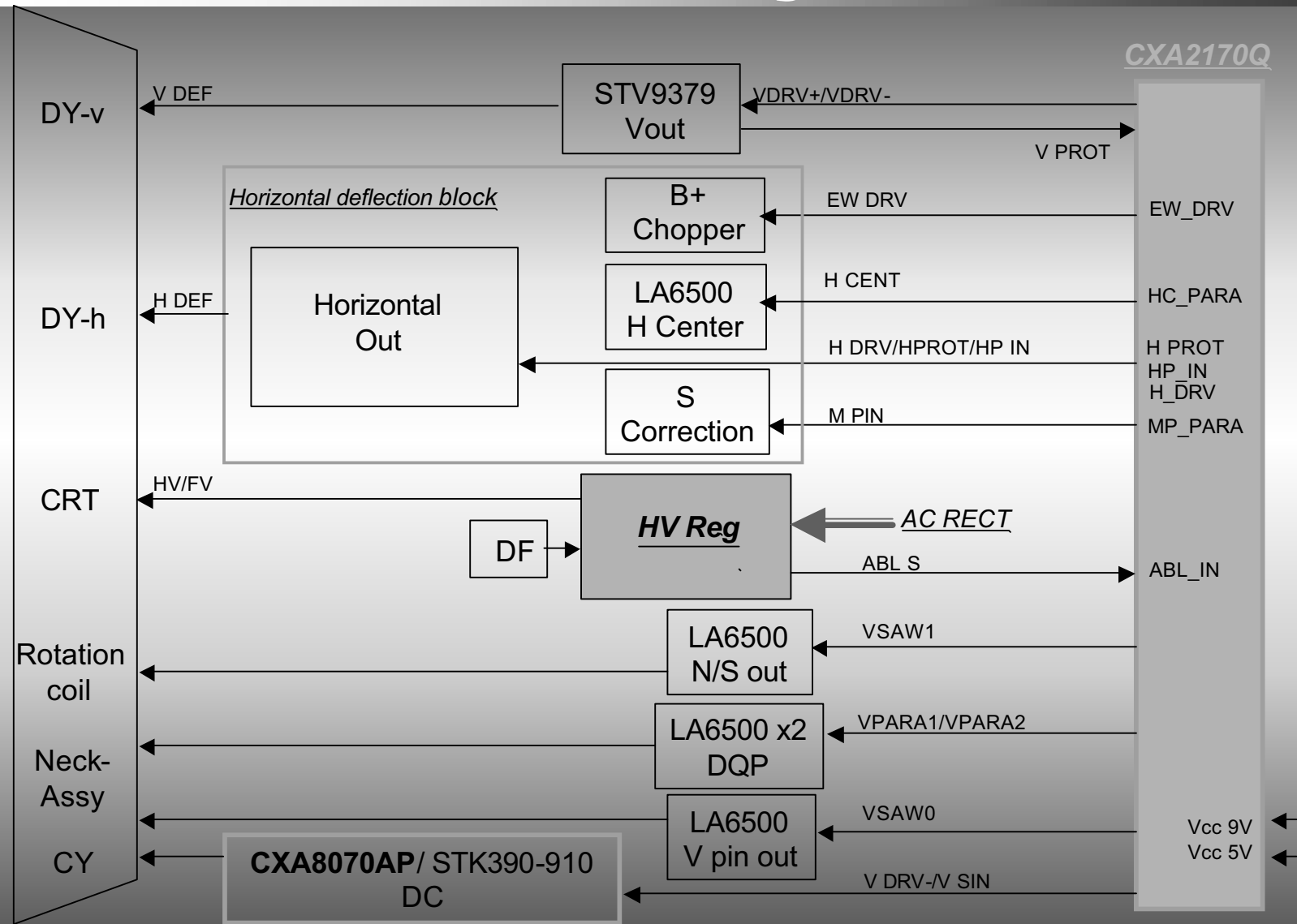
#### BLOCK DIAGRAMS (1 OF 3)

HS Signal Flow

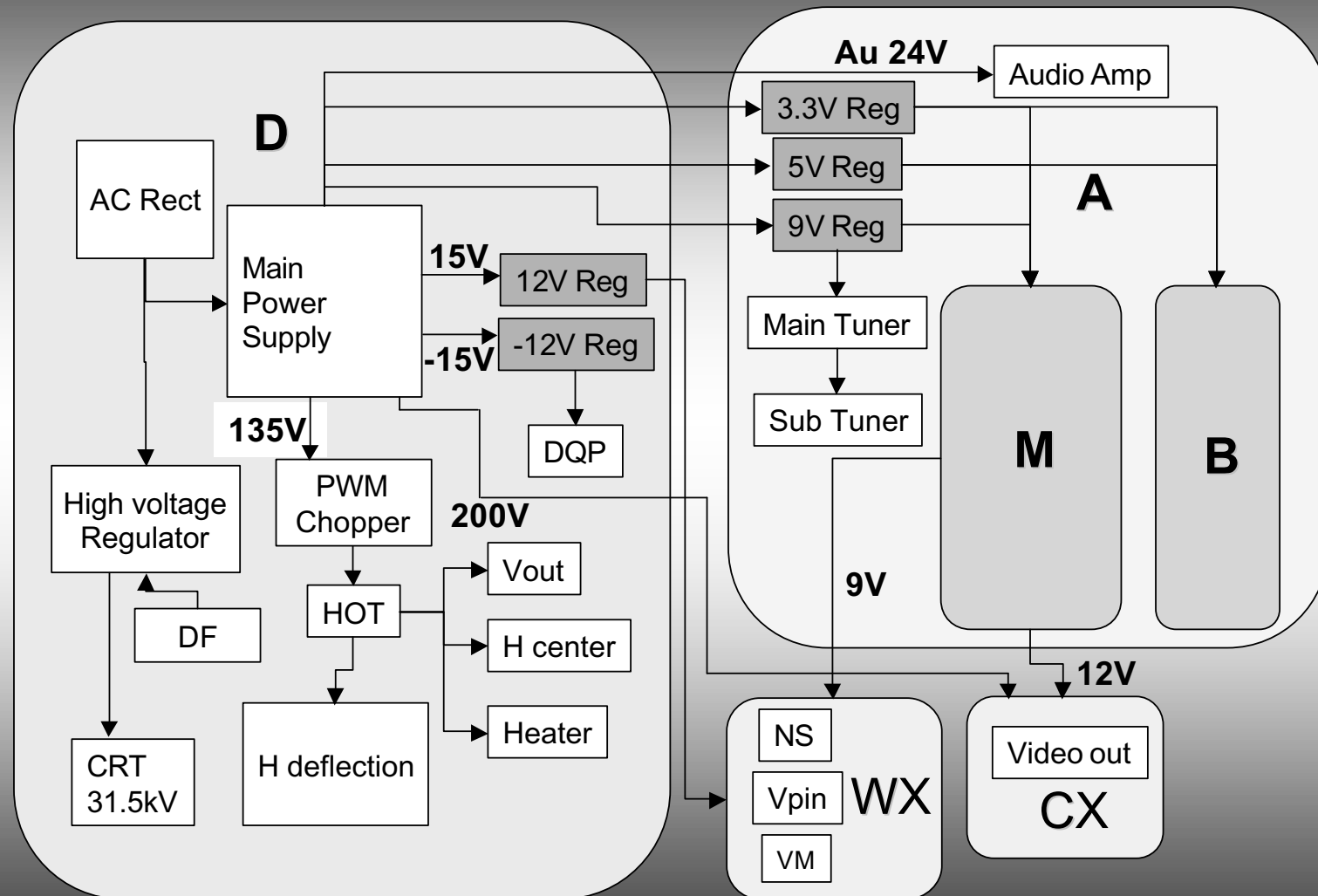


## BLOCK DIAGRAMS (2 OF 3)

# Deflection & HV System Block

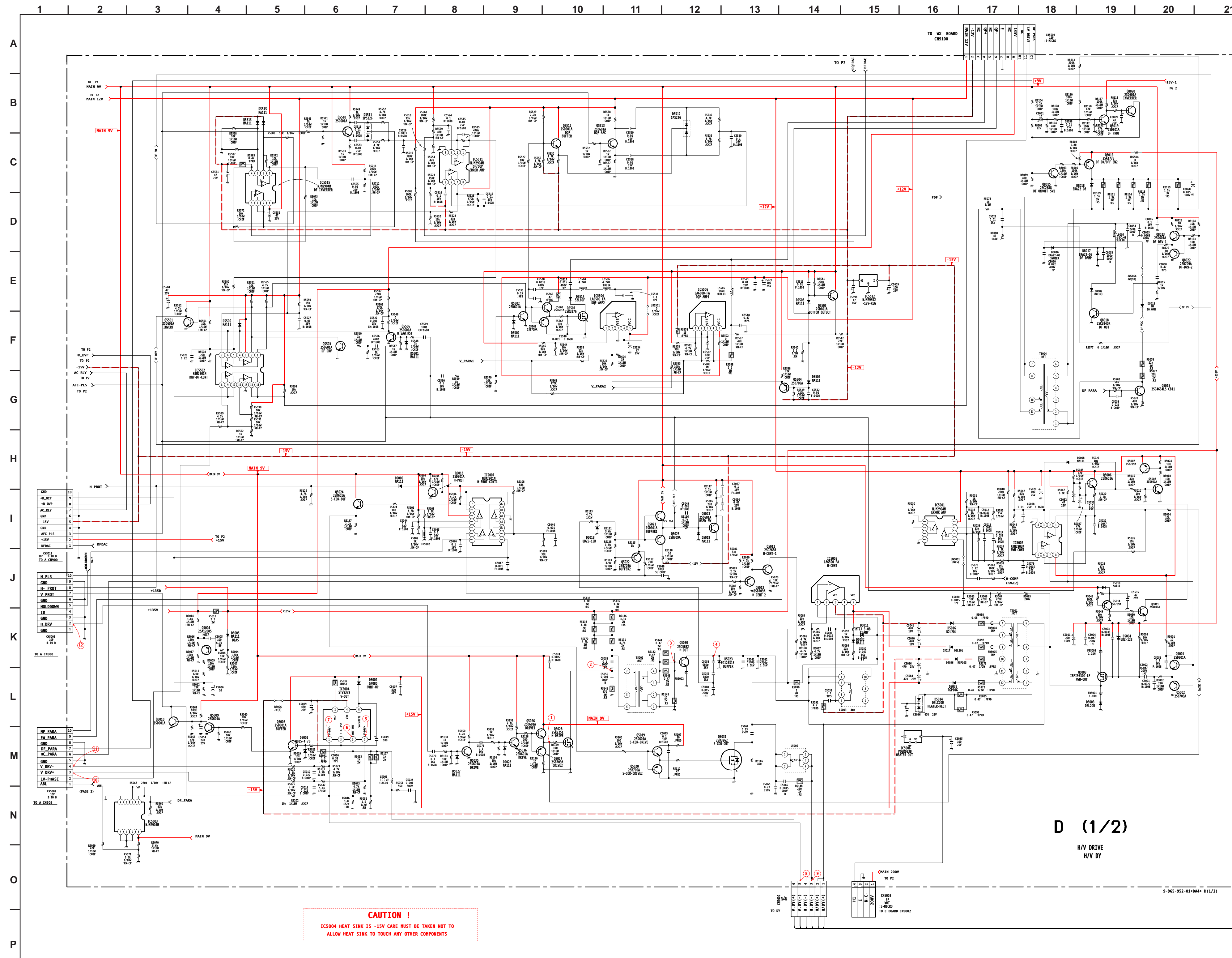


# Power Supply Load Map

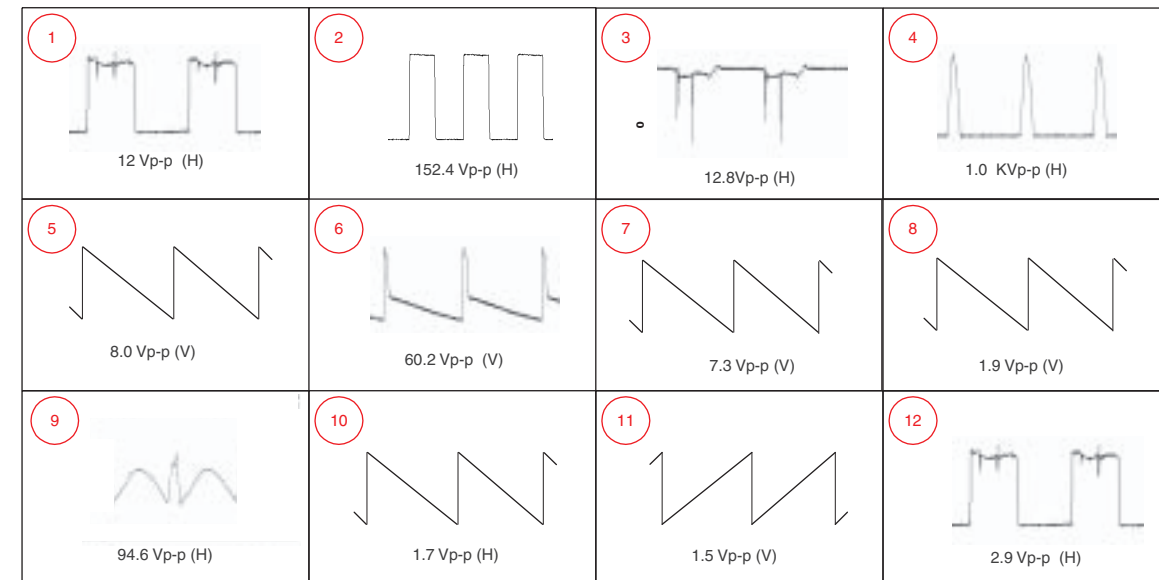


#### 5-4. SCHEMATICS AND SUPPORTING INFORMATION

##### D BOARD SCHEMATIC DIAGRAM (1 OF 2)



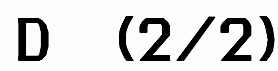
D BOARD WAVEFORMS



D BOARD IC VOLTAGE LIST

IC5001		IC5007		2	1.0	6	0.0	3	2.2
PIN	VOLT	PIN	VOLT	3	-15.8	7	4.6	4	2.5
1	10.9	1	2.4	4	1.7	8	17.9	5	GND
2	10.9	2	0.7	5	12.0	9	0.0	6	0.0
3	N/C	3	9.0	IC5511		10	10.5	7	4.6
4	GND	4	1.6	PIN	VOLT	11	GND	8	17.9
5	3.9	5	GND	1	4.0	12	4.8	9	0.0
6	3.9	6	3.9	2	5.8	13	N/C	10	10.5
7	4.7	7	2.7	3	5.8	14	151.8	11	GND
8	12.0	8	0.4	4	GND	15	142.2	12	4.8
IC5002		9	3.0	5	2.6	16	146.3	13	N/C
PIN	VOLT	10	N/C	6	2.6	17	N/C	14	151.8
1	5.6	11	N/C	7	7.6	18	306.1	15	142.2
2	2.6	12	GND	8	12.0	IC6502		16	146.3
3	5.9	13	N/C	IC5512		PIN	VOLT	17	N/C
4	GND	14	0.7	PIN	VOLT	I	15.0	18	306.1
5	5.1	IC5502		I	-15.0	O	12.0	IC8004	
6	5.6	PIN	VOLT	O	-12.0	G	GND	PIN	VOLT
7	4.8	1	6.9	G	GND	4	N/C	1	6.9
8	12.0	2	0.5	IC5515		IC6503		2	6.9
IC5004		3	12.0	PIN	VOLT	PIN	VOLT	3	6.9
PIN	VOLT	4	2.7	1	0.0	1	133.8	4	GND
1	1.2	5	3.7	2	0.0	2	N/C	5	6.9
2	14.1	6	2.6	3	0.0	3	2.5	6	6.9
3	-13.1	7	4.4	4	-11.9	4	11.0	7	6.9
4	-15.3	8	N/C	5	6.0	5	GND	8	15.0
5	0.0	9	N/C	6	6.0	IC6505		IC8005	
6	14.6	10	N/C	7	6.0	PIN	VOLT	PIN	VOLT
7	1.2	11	N/C	8	9.0	1	134.4	1	2.5
IC5005		12	GND	IC6500		2	15.4	2	GND
PIN	VOLT	13	N/C	PIN	VOLT	3	GND	3	9.9
1	99.4	14	N/C	I	15.0	IC8001		IC8006	
2	99.1	IC5504		O	12.0	PIN	VOLT	PIN	VOLT
3	94.6	PIN	VOLT	G	GND	1	0.1	1	0.0
4	98.8	1	1.6	4	N/C	2	2.5	2	2.5
5	105.0	2	1.6	IC6501		3	2.1	3	2.2
IC5006		3	GND	PIN	VOLT	4	GND	4	GND
PIN	VOLT	4	5.4	1	2.8	5	2.3	5	7.5
I	7.7	5	12.0	2	1.8	6	2.5	6	4.5
O	6.3	IC5506		3	2.2	7	0.0	7	14.8
G	GND	PIN	VOLT	4	2.5	8	17.5	8	15.0
VC	N/C	1	1.0	5	GND	IC8002		IC8104	
		PIN	VOLT	PIN	VOLT	1	2.6	1	2.5
		2	1.8	2	GND	3	2.5	2	GND

All voltages are in V.



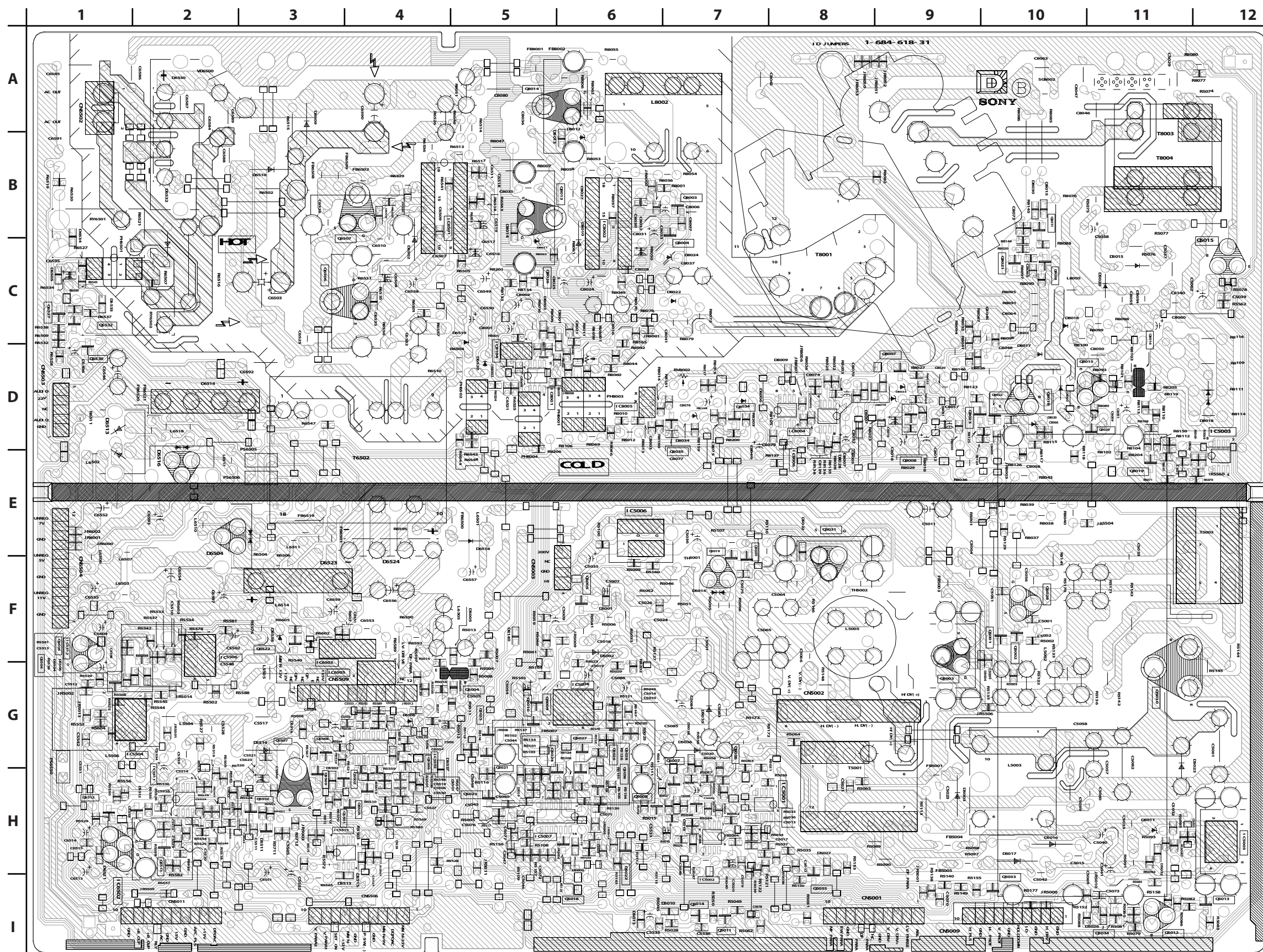
POWER SUPPLY  
AC RECT  
DEFLECTION

	B	C	E		B	C	E		D	G	S
Q5001	4.8	12	4.9	Q5505	0.4	9.0	0.0	Q5003	10.9	128.8	135.0
Q5002	4.8	GND	4.9	Q5506	0.0	2.7	GND	Q5028	63.9	3.8	GND
Q5004	133.3	3.7	132.7	Q5510	0.7	8.3	0.8	Q5031	14.6	2.1	GND
Q5005	0.0	14.1	0.2	Q5512	4.4	12.0	3.8	Q5507	10.5	6.9	GND
Q5006	11.2	12.0	10.7	Q5513	1.3	8.7	4.2	Q6506	140.1	4.8	GND
Q5007	11.4	12.1	12.0	Q5568	6.9	12.0	7.0	Q6507	305.6	145.1	140.1
Q5008	0.7	0.0	GND	Q5569	6.9	0.0	7.0	Q8013	136.0	4.5	GND
Q5009	0.0	0.0	GND	Q6522	15.4	0.0	15.4	Q8014	305.0	131.0	136.0
Q5010	0.1	0.8	GND	Q6527	0.8	0.1	GND	All voltages are in V.			
Q5011	0.0	0.0	GND	Q6530	3.2	0.0	3.2				
Q5012	3.4	97.5	2.9	Q6532	0.0	3.2	GND				
Q5013	2.8	GND	3.4	Q8003	0.1	2.6	GND				
Q5014	8.9	0.0	9.0	Q8004	0.1	2.6	GND				
Q5015	2.1	105.0	1.5	Q8007	0.6	0.1	GND				
Q5018	0.7	0.0	GND	Q8008	0.6	0.1	GND				
Q5019	2.2	9.0	2.1	Q8011	11.9	0.0	12.0				
Q5020	2.2	GND	2.1	Q8015	0.6	0.0	GND				
Q5021	0.9	9.0	1.3	Q8016	132.6	132.4	133.3				
Q5022	0.6	GND	1.2	Q8018	0.0	86.6	GND				
Q5023	0.2	3.9	GND	Q8019	0.6	0.0	GND				
Q5024	2.4	9.0	2.2	Q8020	0.0	0.6	GND				
Q5025	0.9	-15.0	1.3	Q8021	11.7	0.0	12.0				
Q5026	3.8	9.0	3.8	Q8022	3.4	GND	3.5				
Q5027	3.8	0.0	3.8	Q8023	3.4	9.0	3.5				
Q5030	0.0	84.3	GND	Q8028	0.0	11.7	GND				
Q5035	0.0	2.1	GND	Q8034	0.0	12.0	GND				
Q5036	0.2	3.8	GND	Q8035	11.6	2.5	12.0				
Q5501	0.5	3.4	GND								
Q5502	0.0	6.9	GND								
Q5503	0.0	0.5	GND								
Q5504	0.2	-12.0	0.8								

All voltages are in V.



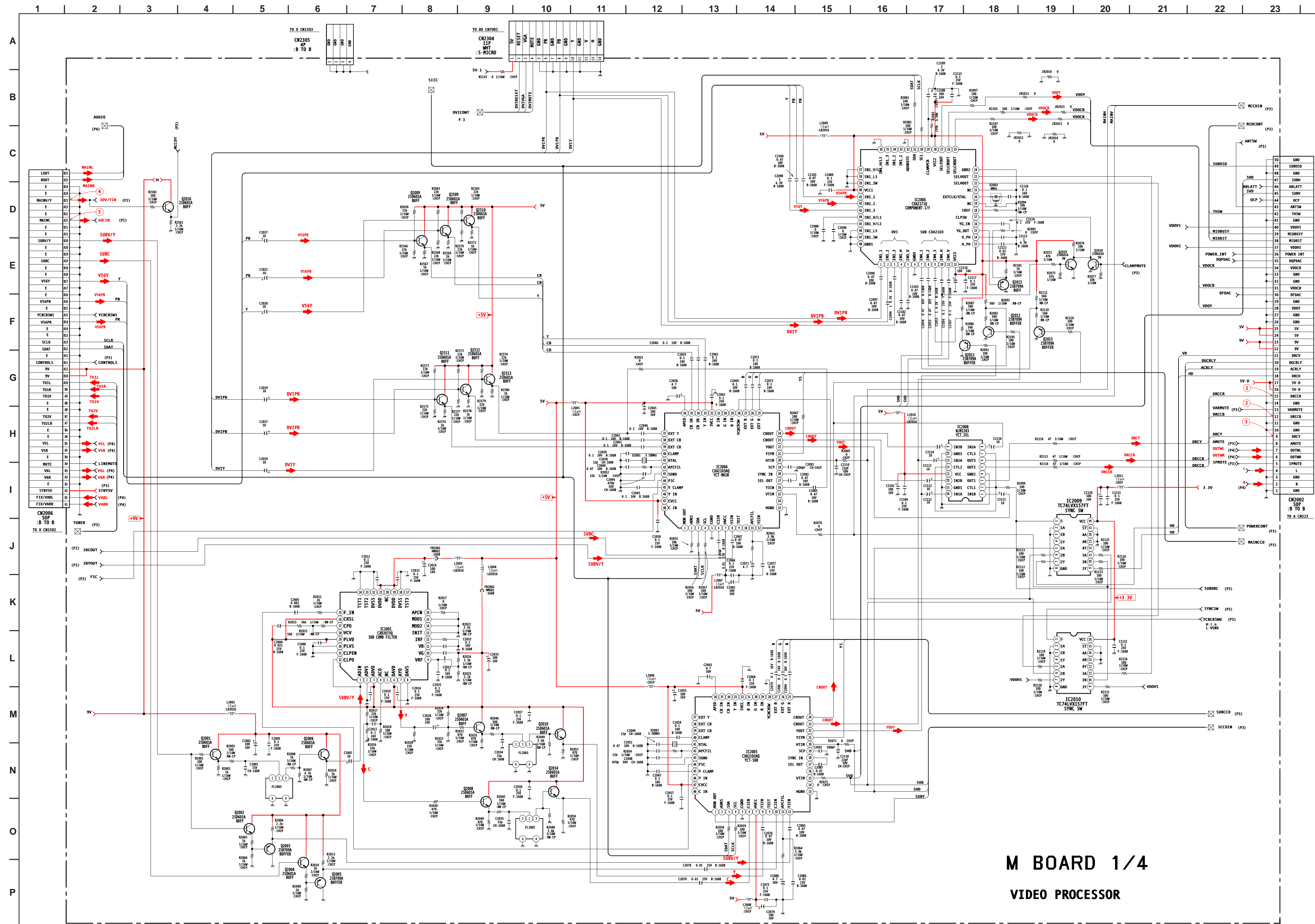
**D** [H/V DRIVE, H/V DY, POWER SUPPLY, AC RECT DEFLECTION]  
**CONDUCTOR SIDE**



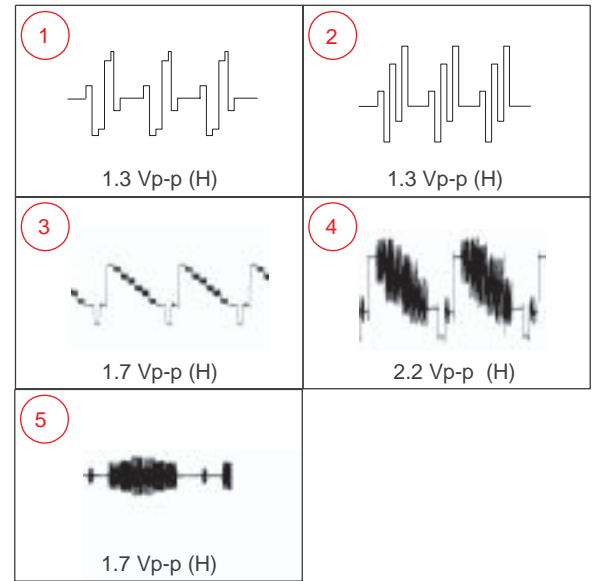
## D BOARD LOCATOR LIST

DIODE		DIODE		IC		TRANSISTOR	
D5001	F-6	D6533	C-1	IC8004	D-8	Q6507	B-4
D5002	F-6	D6534	B-1	IC8005	D-6	Q6522	F-3
D5003	G-9	D6537	G-5	IC8006	D-8	Q6527	C-1
D5004	F-10	D6538	F-3	IC8104	C-5	Q6530	D-1
D5005	F-5	D8001	C-6	TRANSISTOR		Q6532	C-1
D5006	H-6	D8003	C-5	Q5001	F-10	Q8003	B-7
D5007	D-8	D8005	D-8	Q5002	F-10	Q8004	B-7
D5008	H-7	D8006	D-8	Q5003	F-9	Q8007	C-9
D5010	H-7	D8007	E-8	Q5004	F-5	Q8008	E-9
D5011	H-11	D8009	C-8	Q5005	F-6	Q8011	B-10
D5014	F-7	D8010	B-6	Q5006	G-7	Q8013	B-6
D5016	H-10	D8011	B-5	Q5007	G-7	Q8014	A-5
D5017	H-10	D8012	B-6	Q5008	H-7	Q8015	C-11
D5018	G-7	D8013	A-5	Q5009	F-6	Q8016	C-11
D5019	G-5	D8014	B-5	Q5010	F-5	Q8018	D-10
D5023	G-11	D8015	B-10	Q5011	I-7	Q8019	E-11
D5027	H-8	D8016	C-10	Q5012	I-11	Q8020	D-11
D5028	G-6	D8017	C-10	Q5013	H-12	Q8021	B-10
D5032	H-11	D8018	D-12	Q5014	I-7	Q8022	D-10
D5035	G-7	D8022	C-7	Q5015	C-12	Q8023	D-10
D5036	G-7	D8023	C-9	Q5018	H-6	Q8028	C-10
D5501	H-5	D8024	B-7	Q5019	E-7	Q8034	D-7
D5502	G-4	D8026	C-10	Q5020	E-8	Q8035	D-7
D5504	G-11	D8028	E-8	Q5021	G-5		
D5506	G-4	D8030	B-10	Q5022	H-6		
D5508	G-11	D8034	D-7	Q5023	G-5		
D5511	H-3	D8140	F-5	Q5024	G-6		
D5512	G-11	IC		Q5025	G-5		
D5513	H-4	IC5001	G-7	Q5026	G-6		
D5514	G-3	IC5002	H-7	Q5027	G-6		
D5515	H-4	IC5003	E-12	Q5028	F-10		
D6502	C-4	IC5004	F-6	Q5030	F-11		
D6504	E-2	IC5005	H-12	Q5031	E-8		
D6505	C-1	IC5006	E-6	Q5035	H-8		
D6508	G-4	IC5007	H-6	Q5036	G-6		
D6509	A-3	IC5502	G-4	Q5501	H-4		
D6510	B-3	IC5504	G-2	Q5502	G-4		
D6513	D-2	IC5506	F-3	Q5503	H-4		
D6514	D-2	IC5511	G-2	Q5504	F-1		
D6516	D-2	IC5512	F-1	Q5505	F-1		
D6518	E-5	IC5515	H-4	Q5506	G-5		
D6519	C-5	IC6500	H-2	Q5507	G-3		
D6520	C-5	IC6501	B-5	Q5510	H-3		
D6521	E-3	IC6502	I-1	Q5512	H-2		
D6523	F-4	IC6503	F-4	Q5513	H-12		
D6524	A-2	IC6505	G-4	Q5568	G-4		
D6530	A-2	IC8001	D-6	Q5569	G-3		
D6532	B-2	IC8002	B-6	Q6506	C-4		

### M BOARD SCHEMATIC DIAGRAM (1 OF 4)

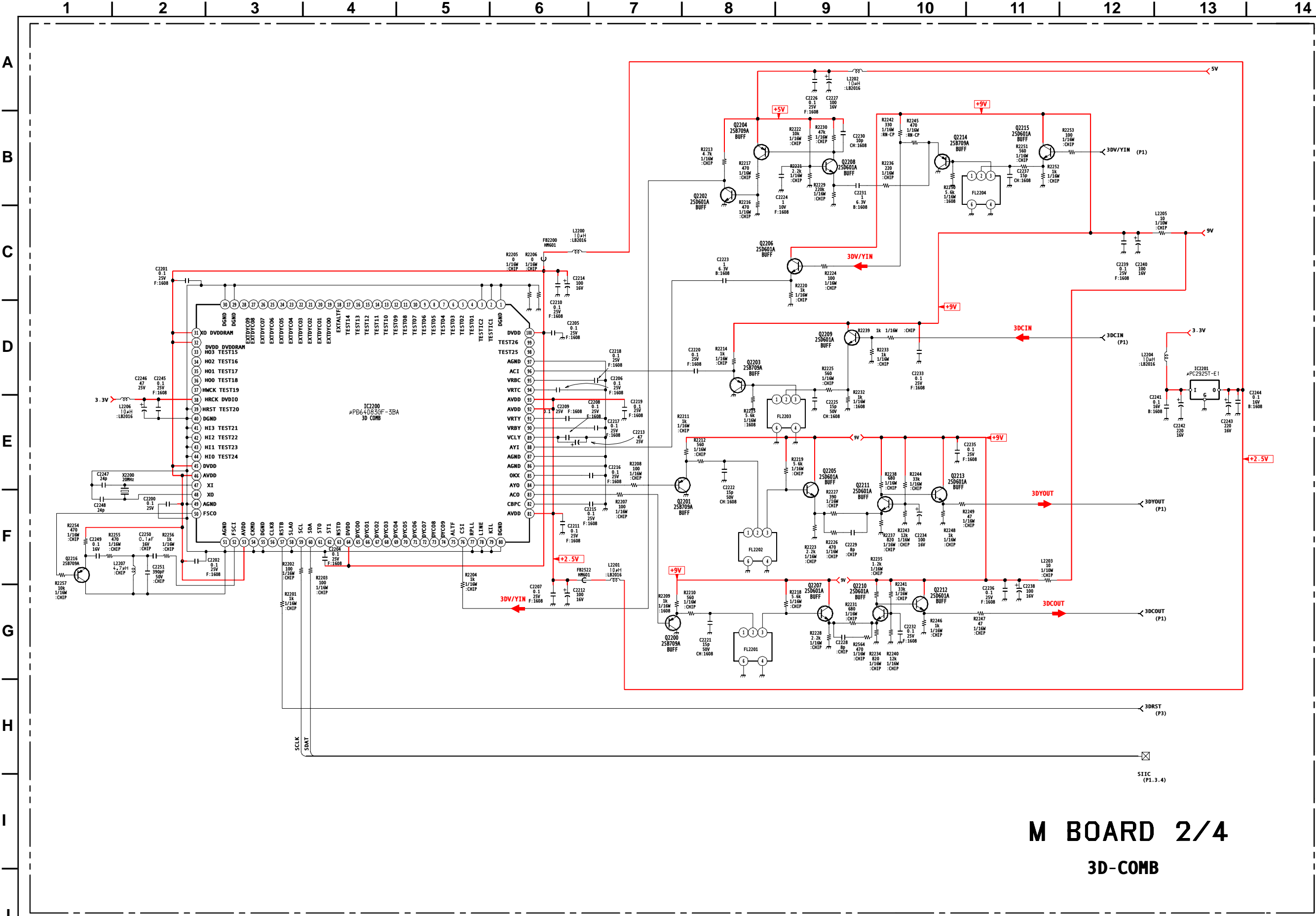


## M BOARD WAVEFORMS



**M BOARD 1/4**  
**VIDEO PROCESSOR**

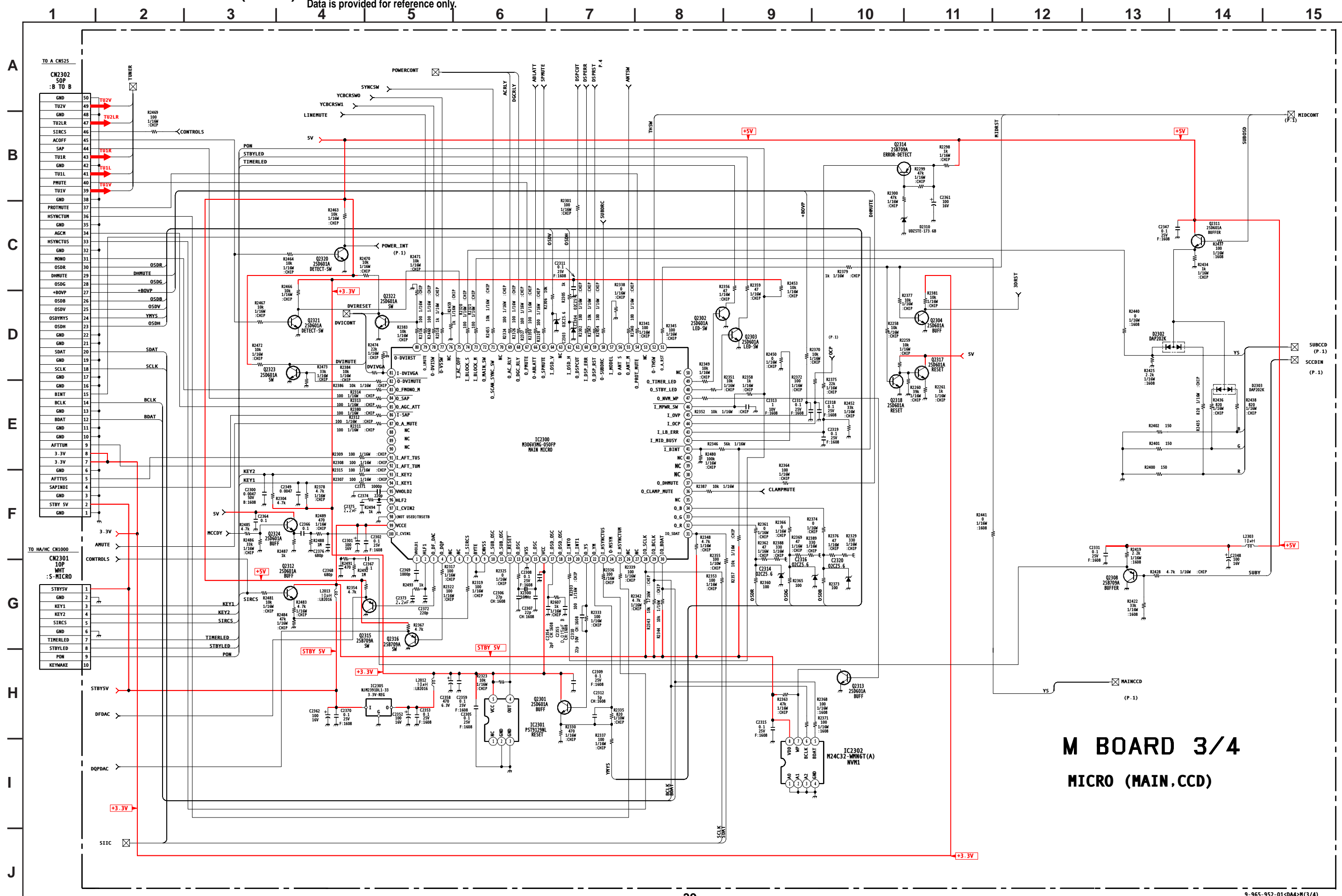
M BOARD SCHEMATIC DIAGRAM (2 OF 4) Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.  
Data is provided for reference only.



M BOARD 2/4  
3D-COMB

## M BOARD SCHEMATIC DIAGRAM (3 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

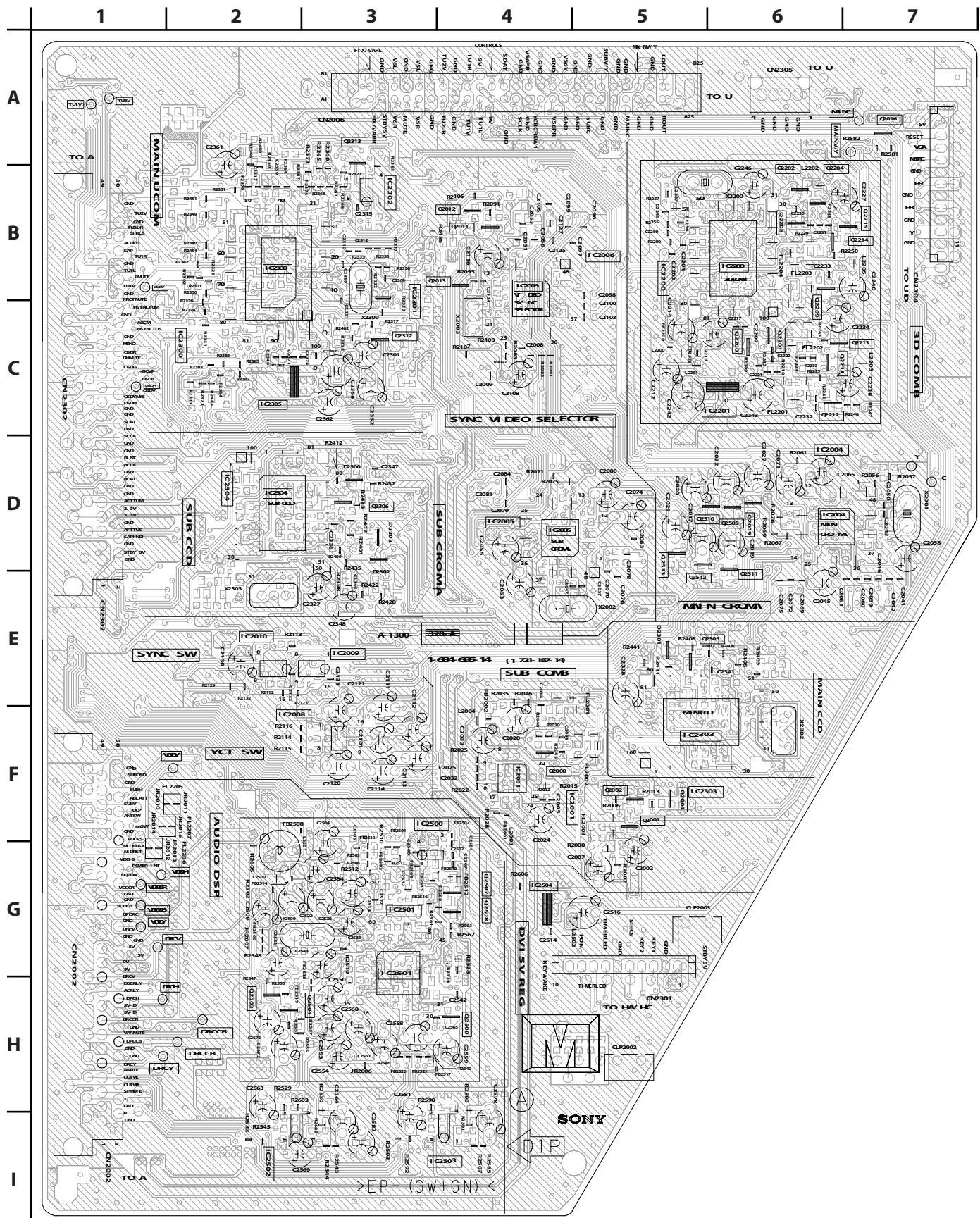




M

[VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

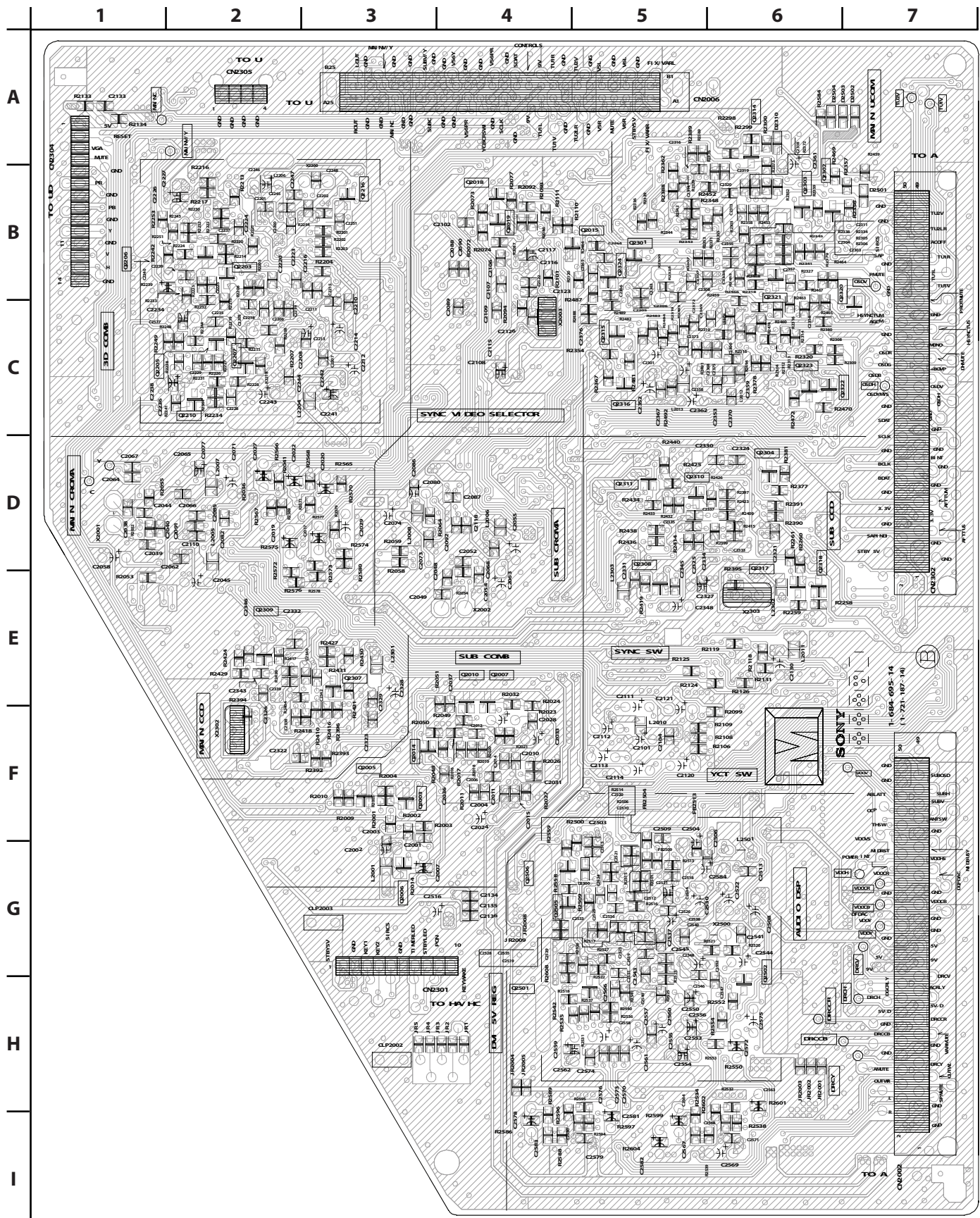
COMPONENT SIDE



M

[VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

CONDUCTOR SIDE





All voltages are in V.

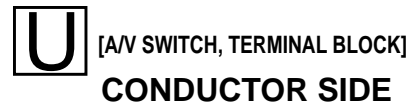
## U BOARD TRANSISTOR LIST

All voltages are in V

**U**  
**A/V SWITCH**  
**TERMINAL BLOCK**

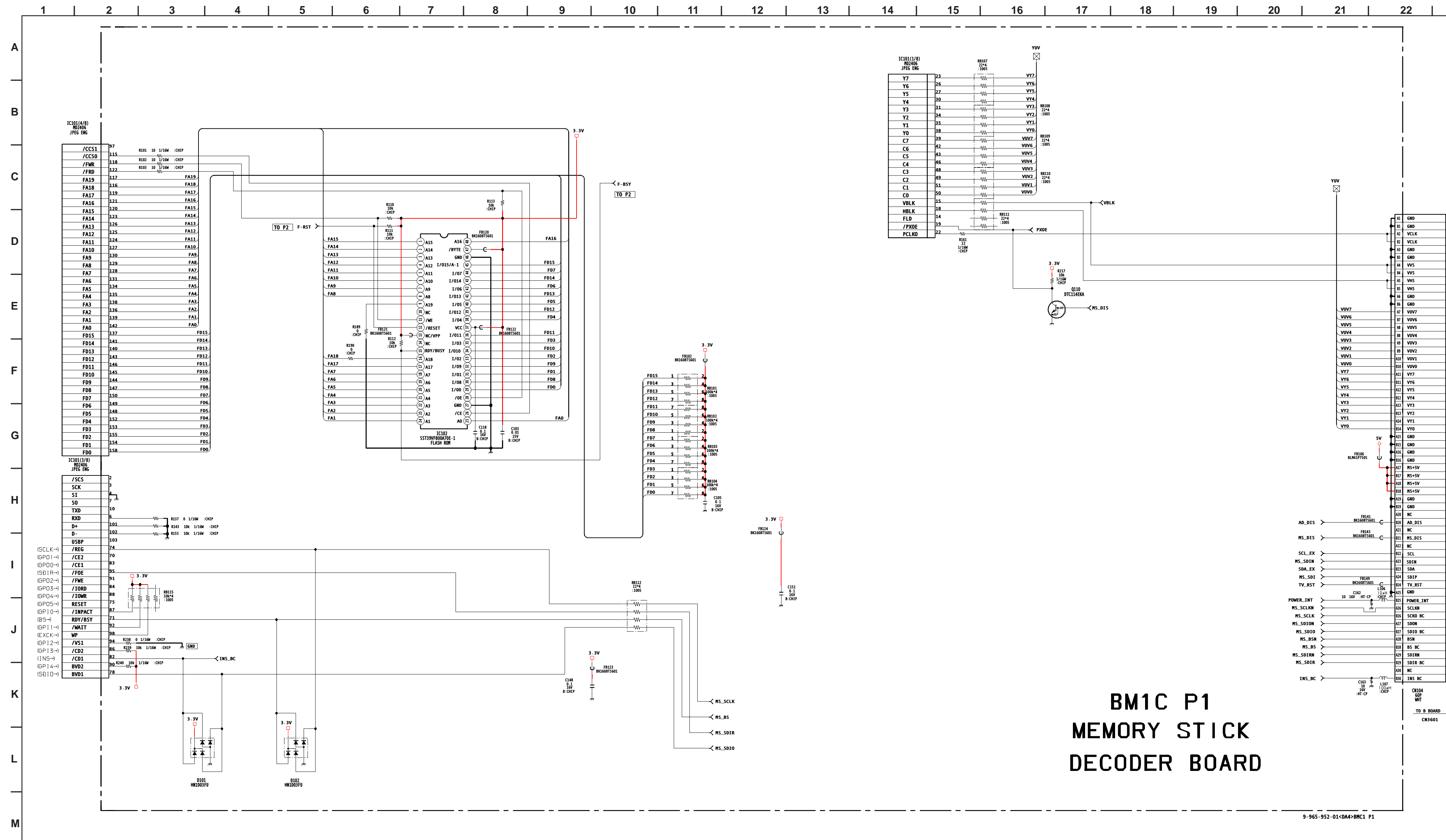


DIODE		TRANSISTOR	
D1518	E-5	Q1501	A-1
IC		Q1502	A-1
IC1501	B-2	Q1503	A-2
IC1502	B-2	Q1508	C-3
		Q1510	C-3
		Q1515	F-4
		Q1516	F-4
		Q1518	E-5
		Q1520	F-5
		Q1521	F-4
		Q1523	A-2
		Q1524	A-1

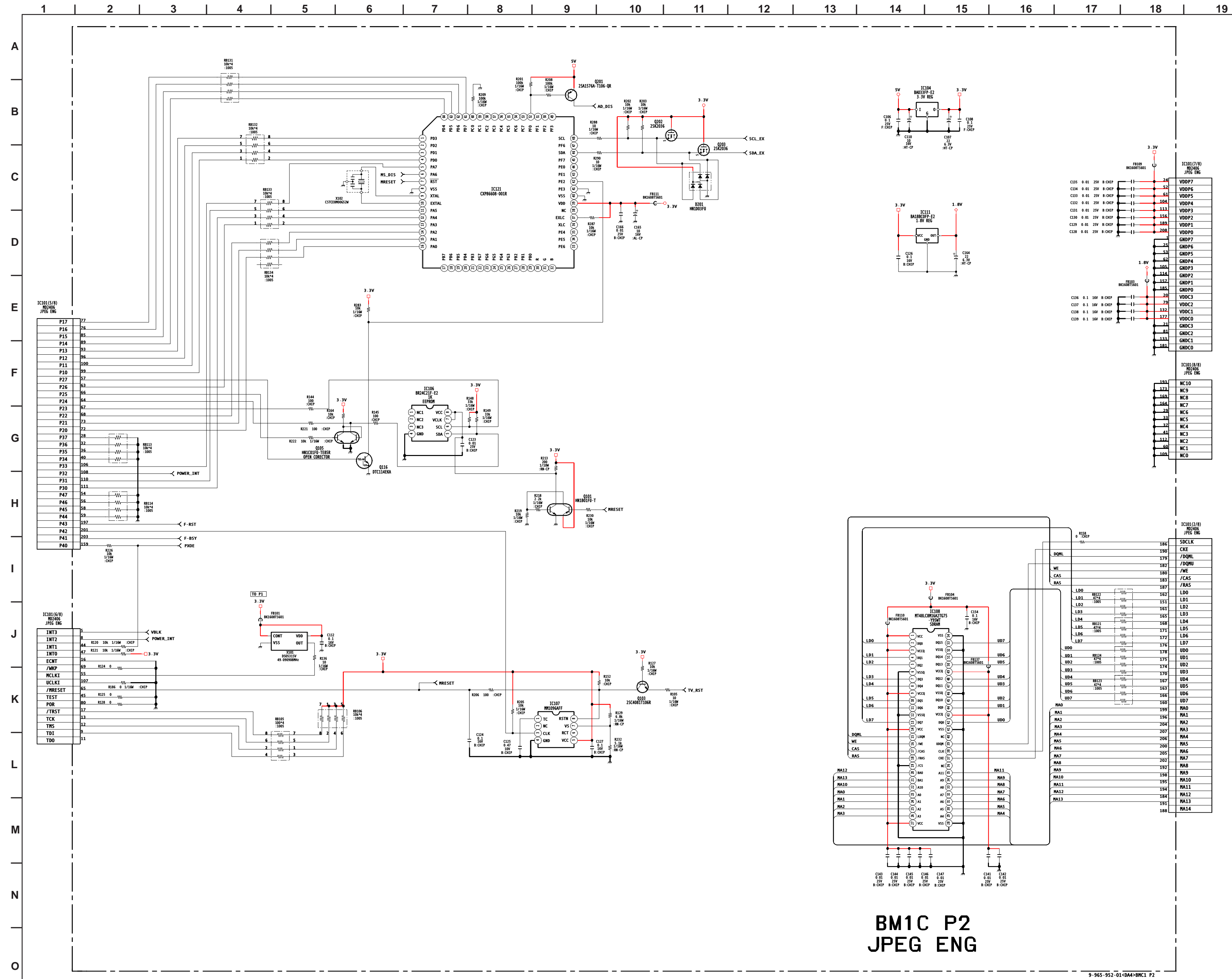


DIODE		DIODE		DIODE		DIODE		TRANSISTOR	
D1501	E-2	D1510	E-5	D1520	B-1	D1529	C-4	Q1504	C-5
D1502	E-1	D1511	E-5	D1521	B-2	D1530	B-5	Q1505	C-4
D1503	E-3	D1512	C-2	D1522	B-2	D1531	C-4	Q1506	C-4
D1504	E-3	D1513	D-1	D1523	C-5	D1532	B-5	Q1507	D-4
D1505	D-4	D1514	D-3	D1524	D-5	D1533	E-5	Q1509	D-5
D1506	D-4	D1515	D-4	D1525	A-1	D1534	E-4	Q1511	D-5
D1507	E-1	D1516	D-4	D1526	A-1	D1535	E-5	Q1512	E-5
D1508	E-1	D1517	C-4	D1527	C-3			Q1513	E-5
D1509	E-3	D1519	A-1	D1528	B-5			Q1519	C-1
								Q1522	B-1

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



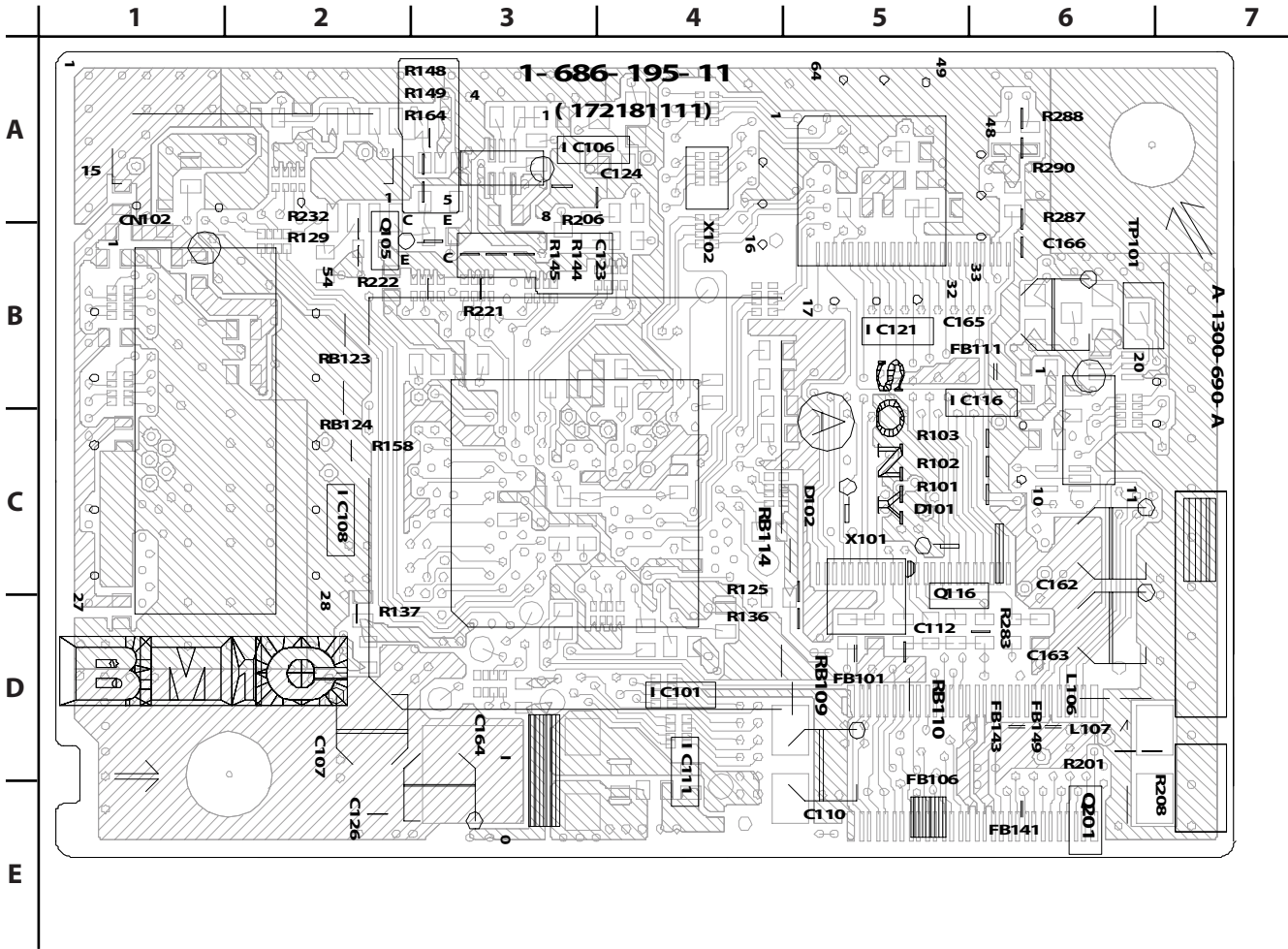
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



BM1C

[MEMORY STICK, DECODER BOARD, JPEG ENG]

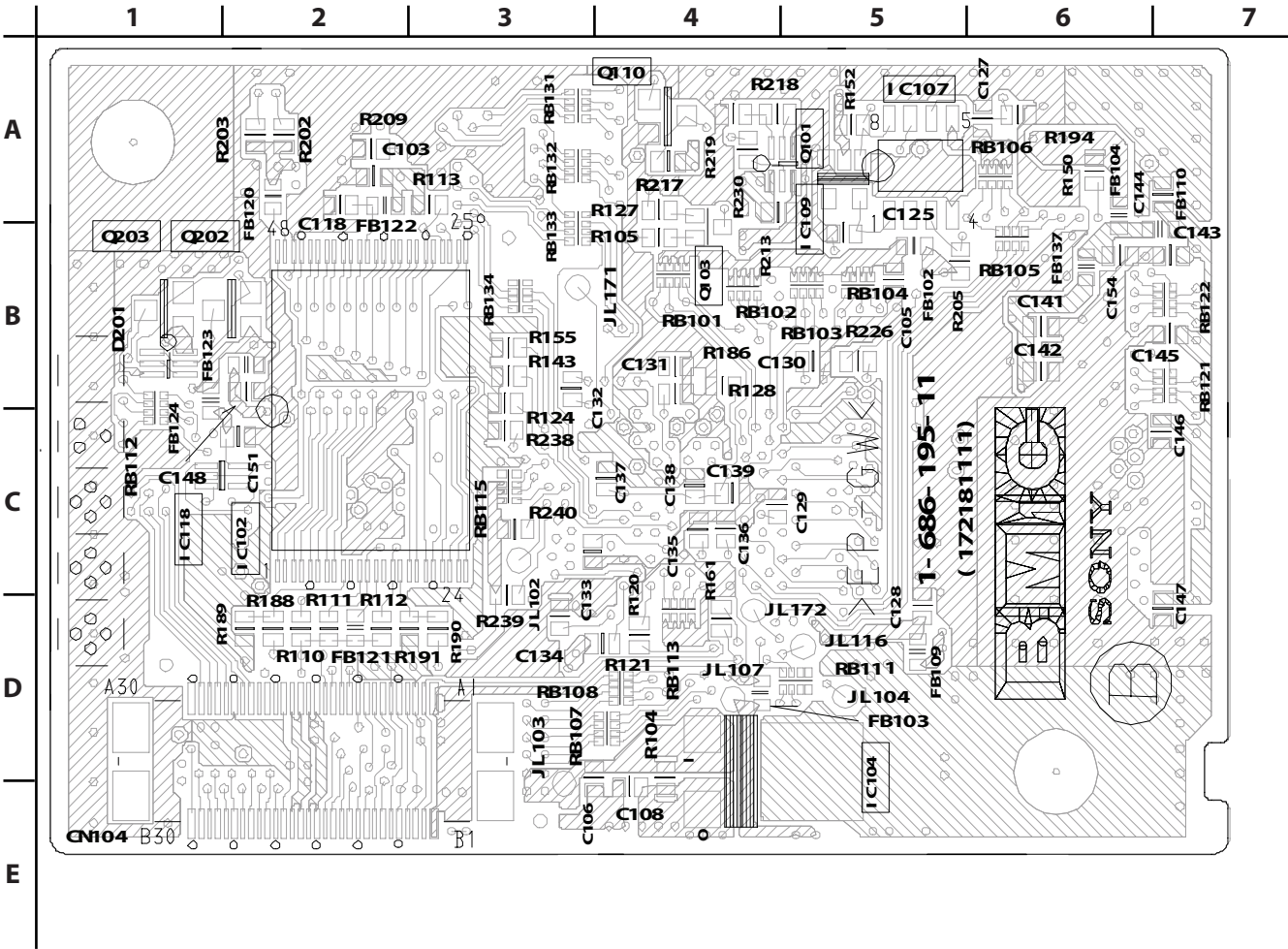
COMPONENT SIDE



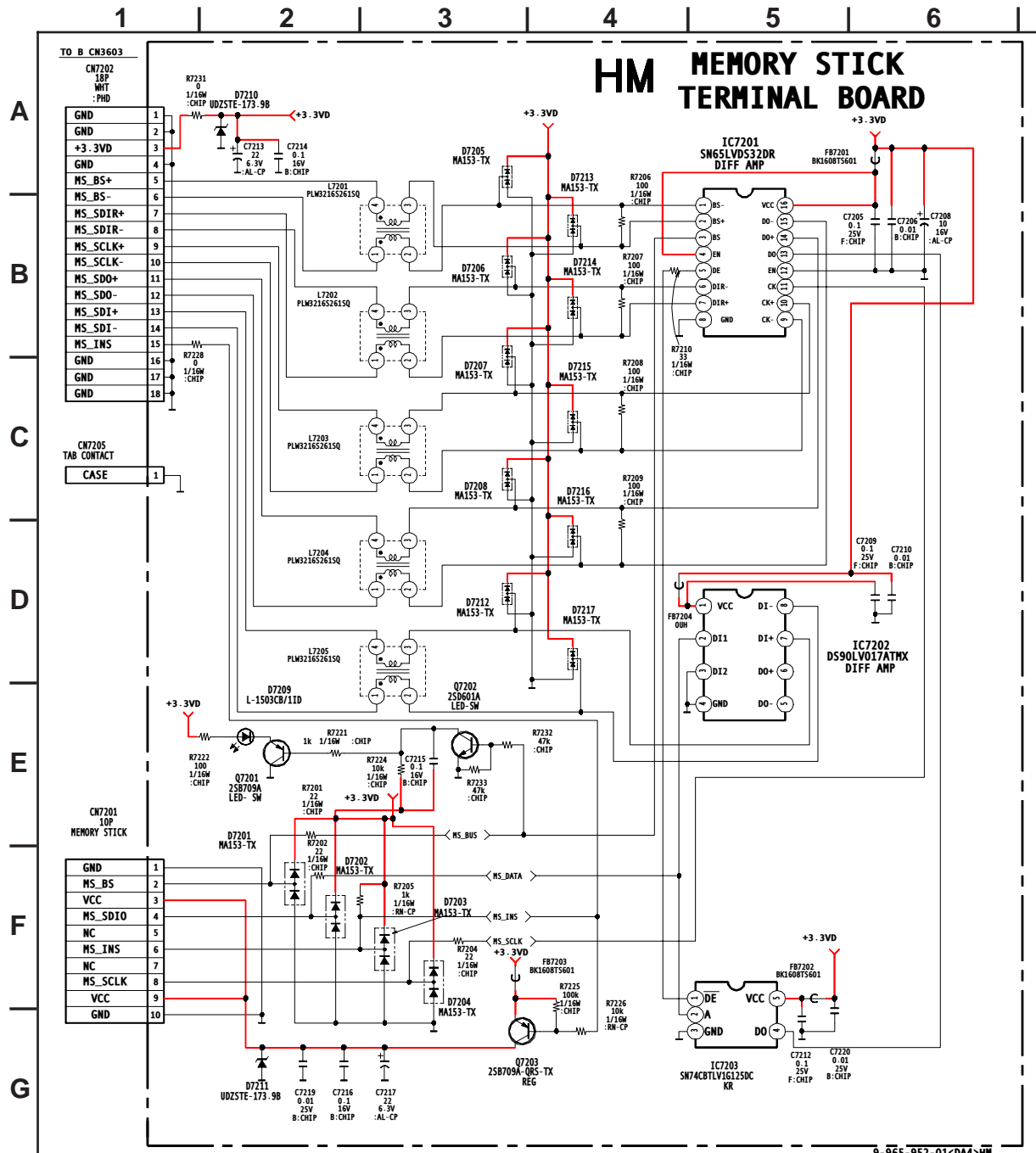
BM1C

[MEMORY STICK, DECODER BOARD, JPEG ENG]

CONDUCTOR SIDE



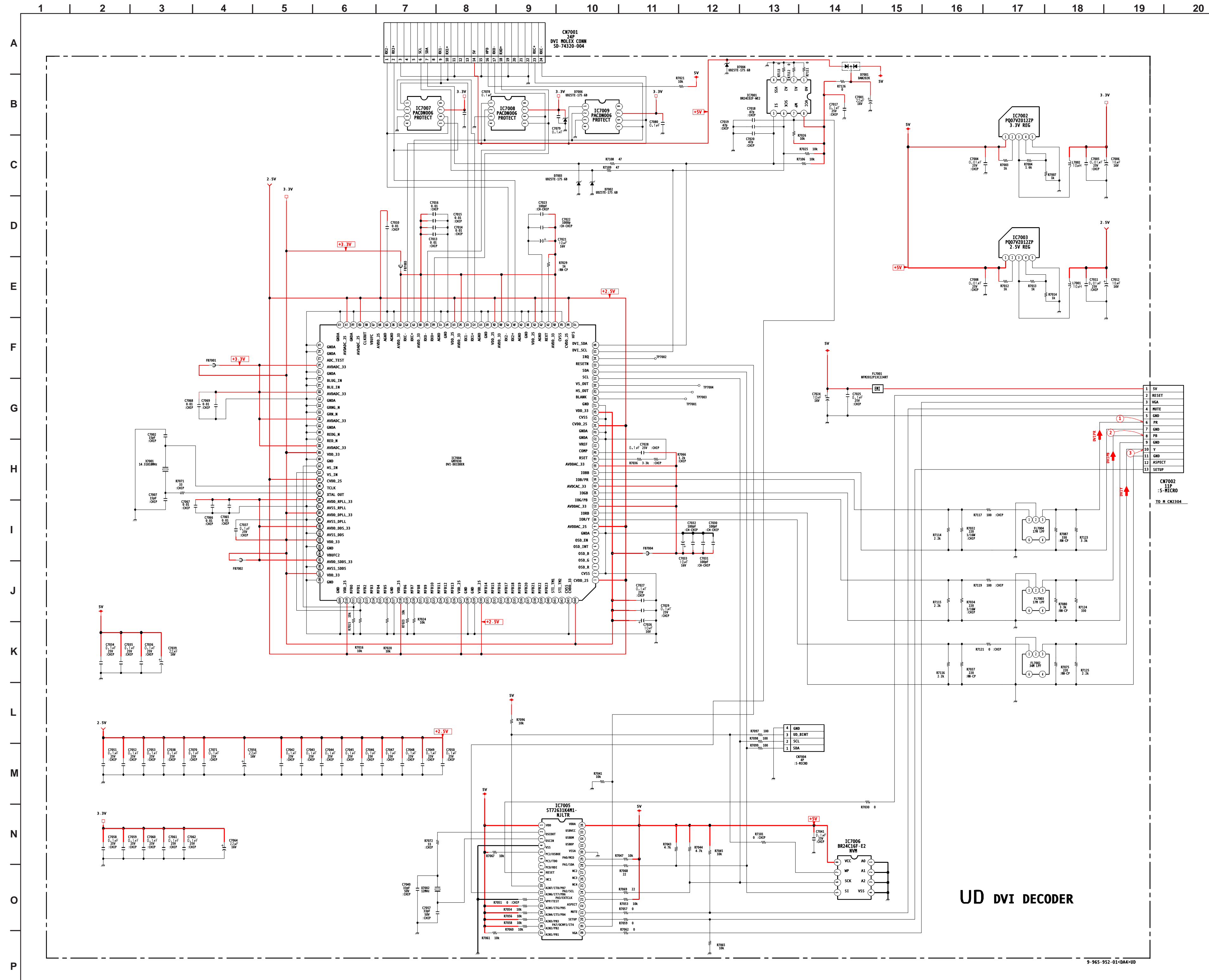
**HM BOARD SCHEMATIC DIAGRAM** Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



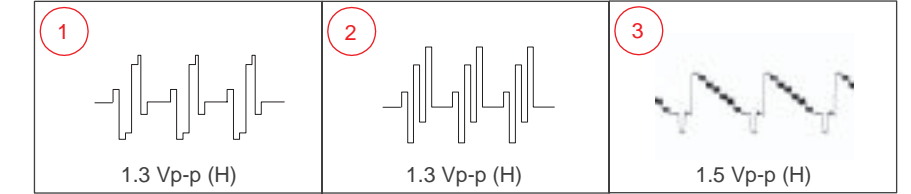
9-965-952-01&lt;DA4&gt;HM



Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

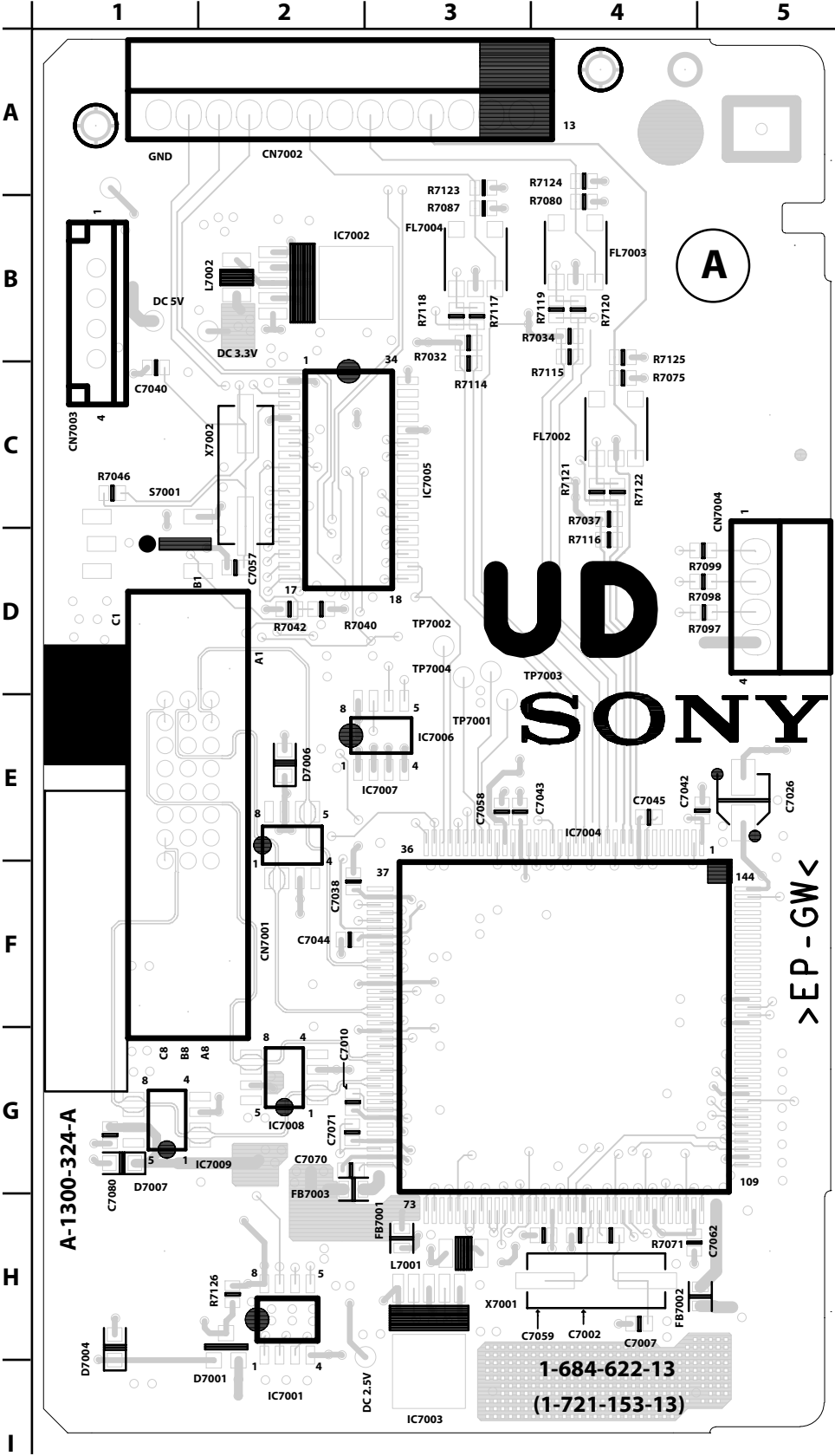


## UD BOARD WAVEFORMS



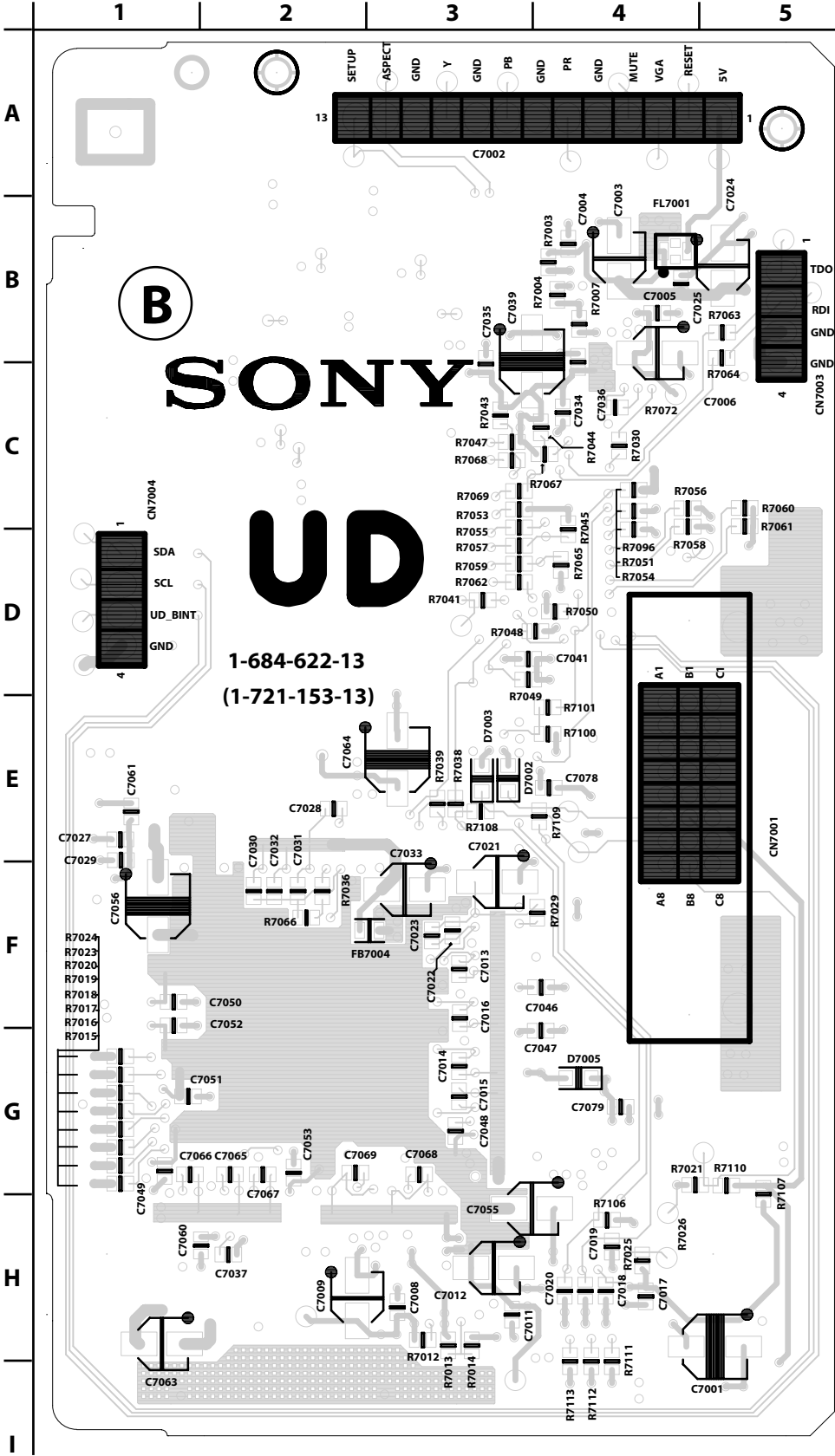
UD [DVI DECODER]

COMPONENT SIDE



UD [DVI DECODER]

CONDUCTOR SIDE

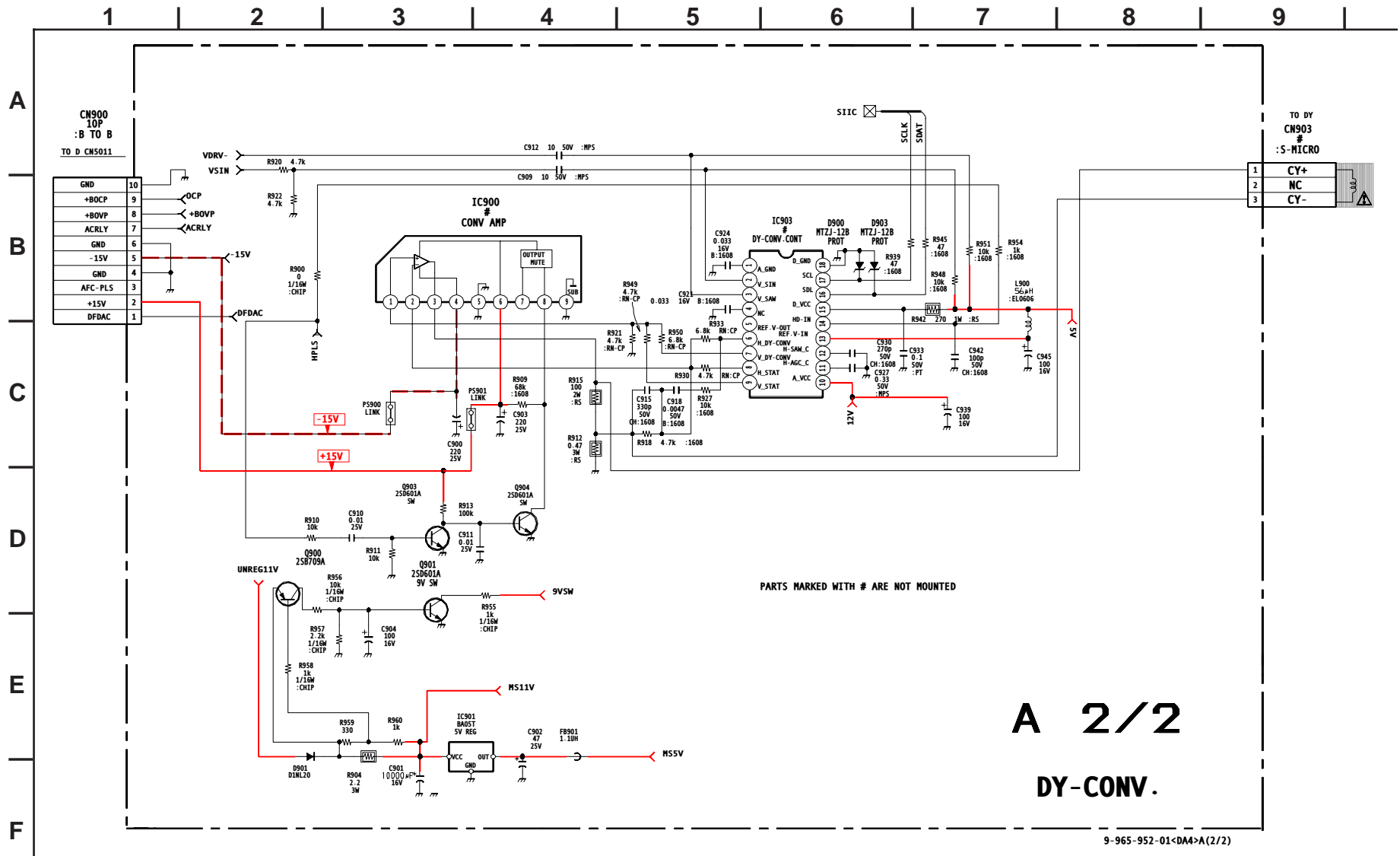




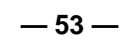
## A BOARD TRANSISTOR VOLTAGE LIST

All voltages are in V.

## A BOARD SCHEMATIC DIAGRAM (2 OF 2)

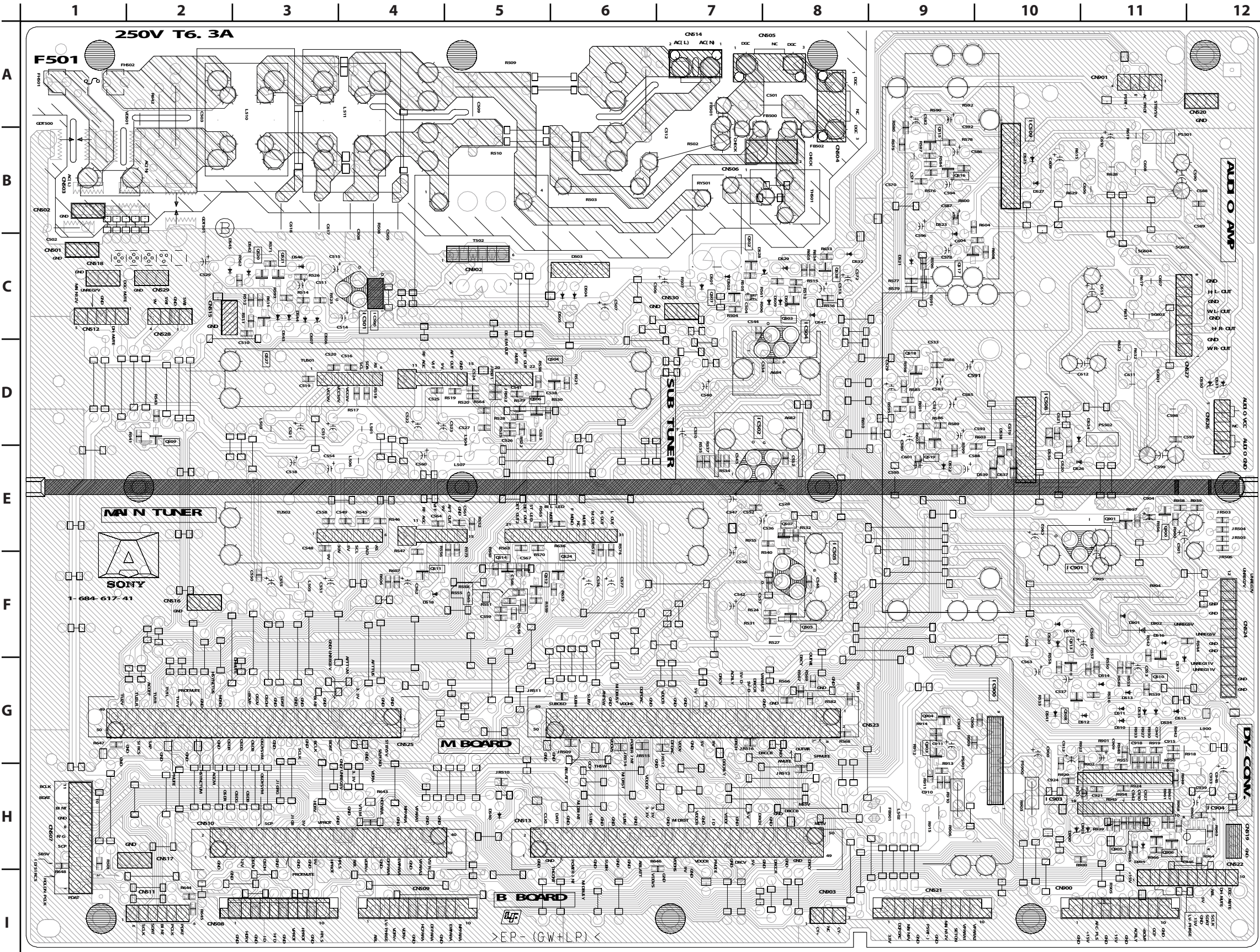


## COMPONENT SIDE



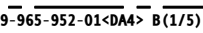
A

[AC/DC POWER, AUDIO POWER, TUNER, DY-CONV]  
CONDUCTOR SIDE

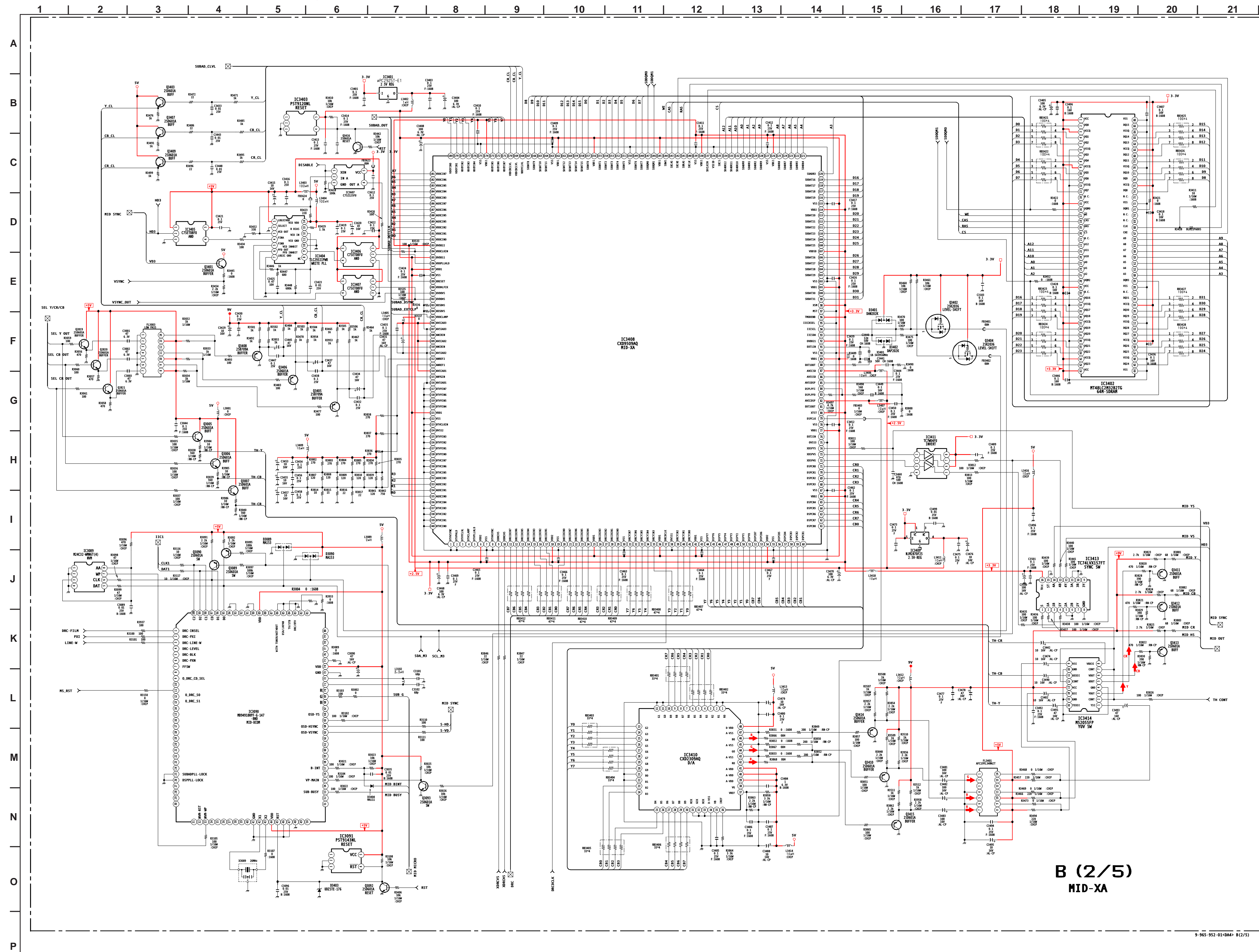


A BOARD LOCATOR LIST

DIODE		IC	
D501	C-7	IC501	C-4
D502	C-7	IC502	D-8
D503	C-6	IC504	C-8
D504	C-6	IC505	E-8
D505	C-6	IC508	D-10
D508	C-8	IC509	B-10
D509	C-8	IC900	G-10
D510	G-11	IC903	H-11
D511	G-11	IC904	H-11
D512	G-11	TRANSISTOR	
D513	G-11	Q501	C-7
D514	G-11	Q502	B-7
D515	G-11	Q503	C-8
D516	F-11	Q504	D-6
D517	F-11	Q505	F-8
D519	F-11	Q506	D-5
D520	F-10	Q507	E-8
D521	C-9	Q508	G-10
D522	E-9	Q509	E-2
D523	B-9	Q510	G-11
D524	D-11	Q511	F-4
D525	B-10	Q512	F-6
D526	E-11	Q513	F-10
D527	B-10	Q514	F-5
D530	D-12	Q515	B-9
D531	D-12	Q516	B-9
D534	G-11	Q517	C-9
D535	G-11	Q518	D-9
D540	H-5	Q519	E-9
D541	G-10	Q524	F-6
D900	H-11	Q527	C-3
D902	F-11	Q900	E-11
D903	H-11	Q901	E-11

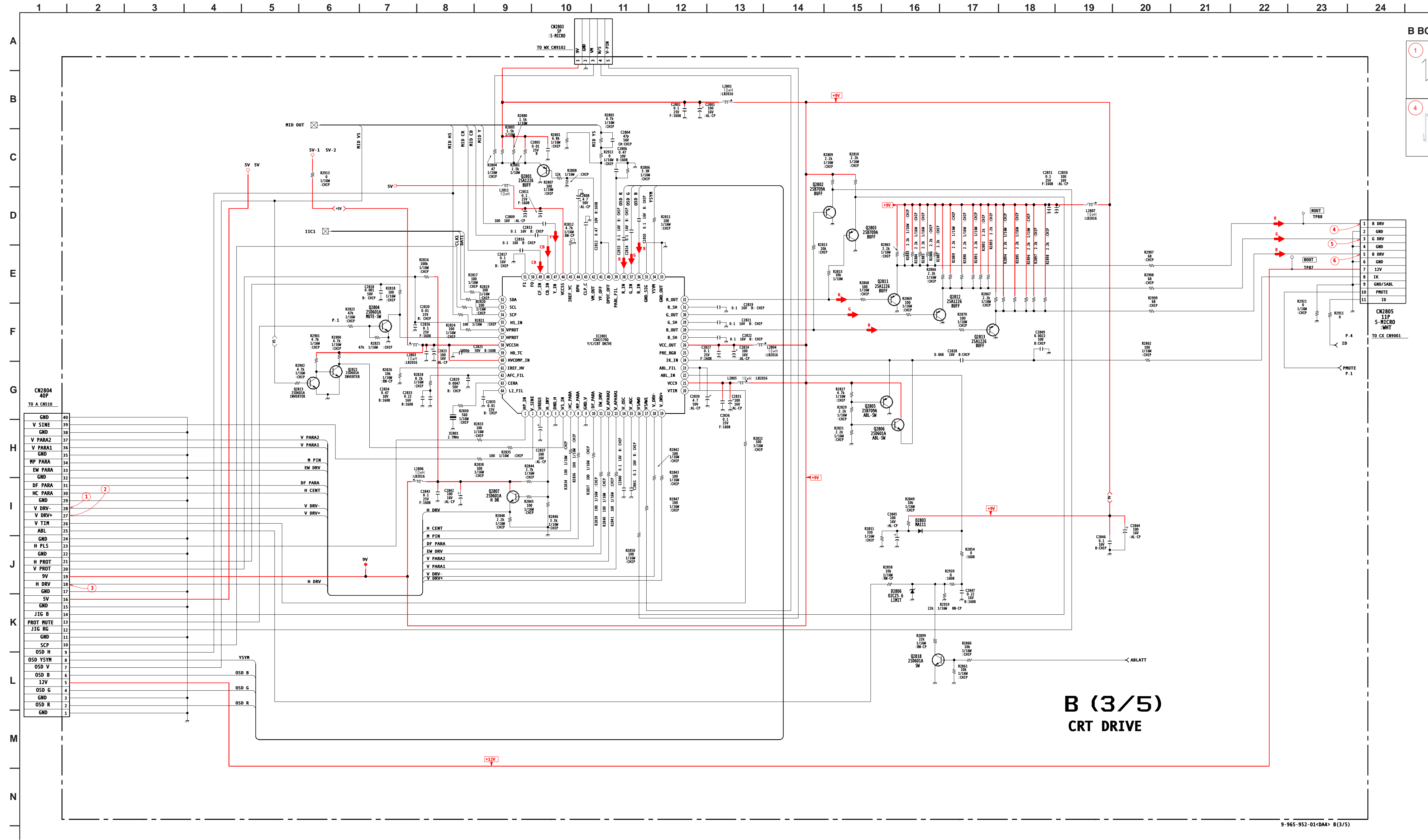


Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

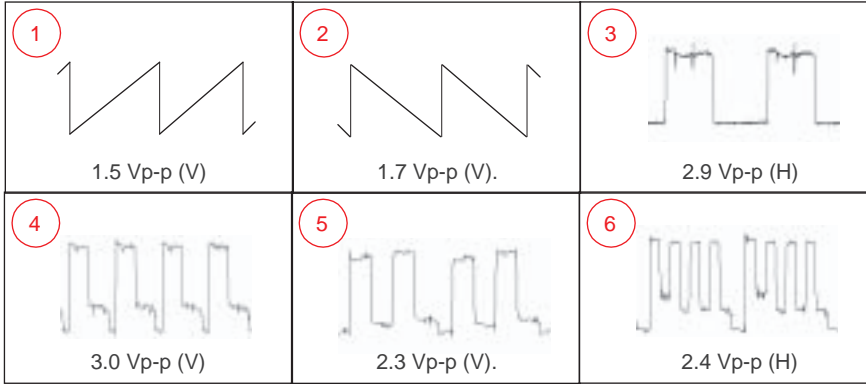


B BOARD SCHEMATIC DIAGRAM (3 OF 5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.  
Data is provided for reference only.



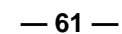
B BOARD WAVEFORMS



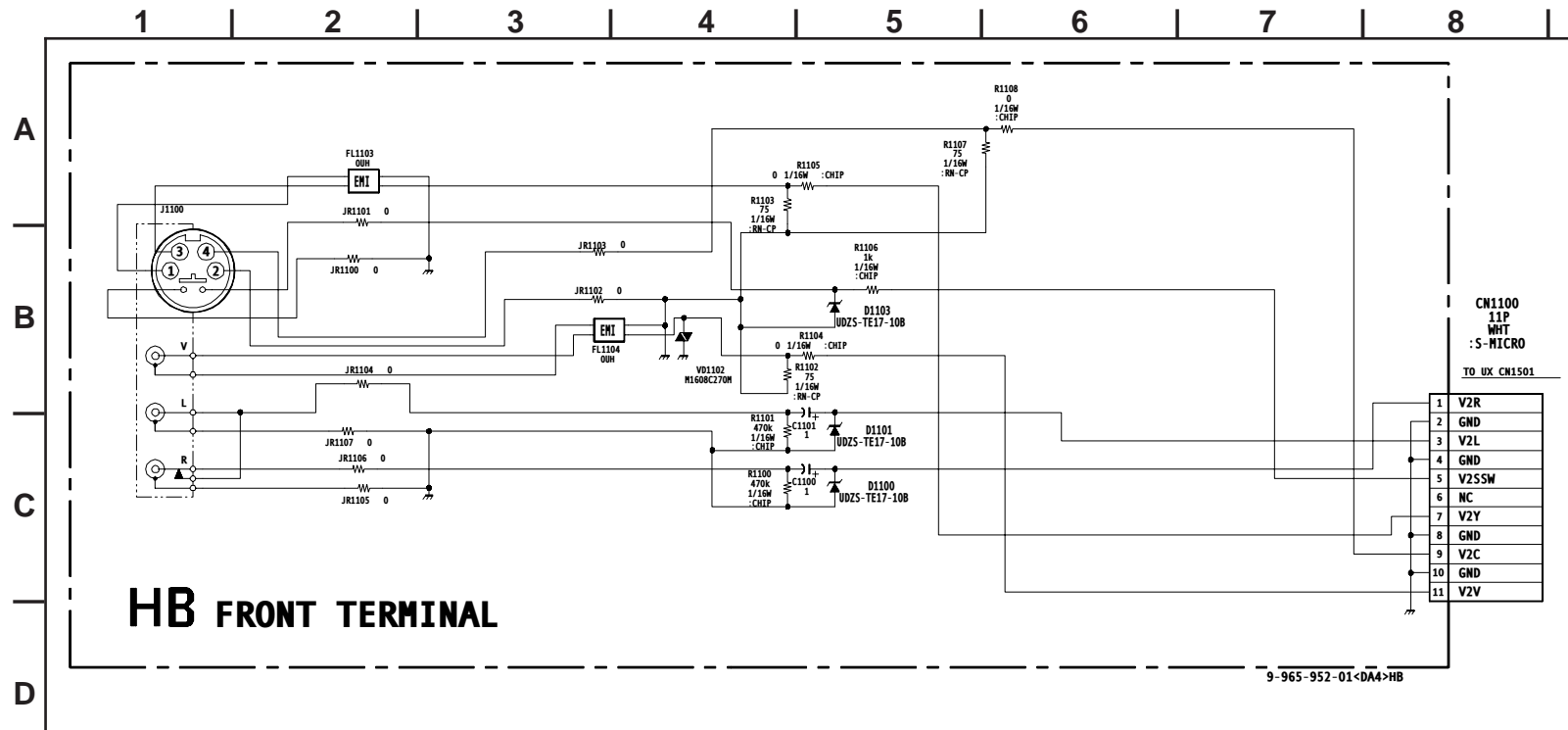




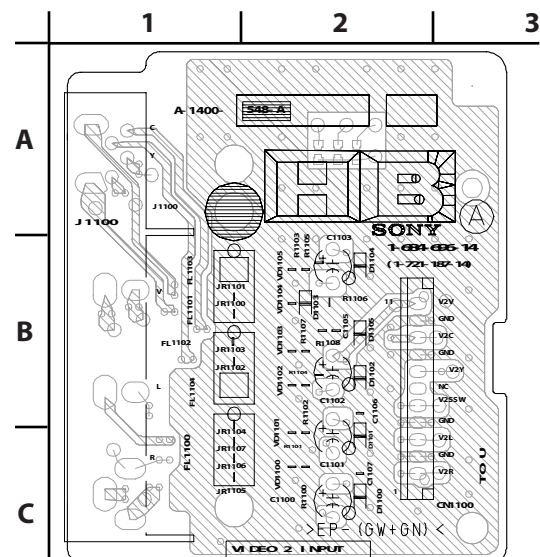




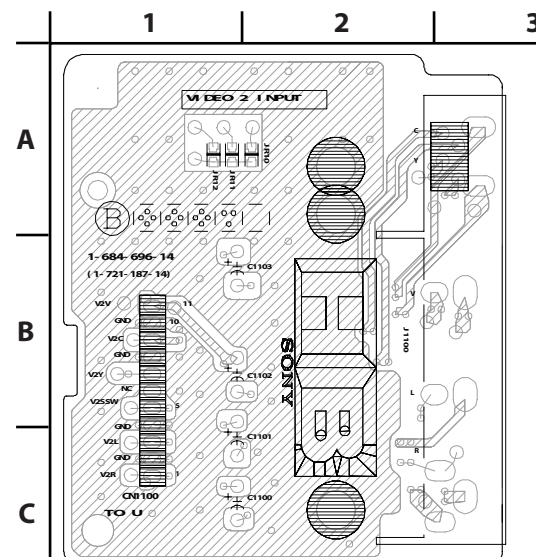
## HB BOARD SCHEMATIC DIAGRAM



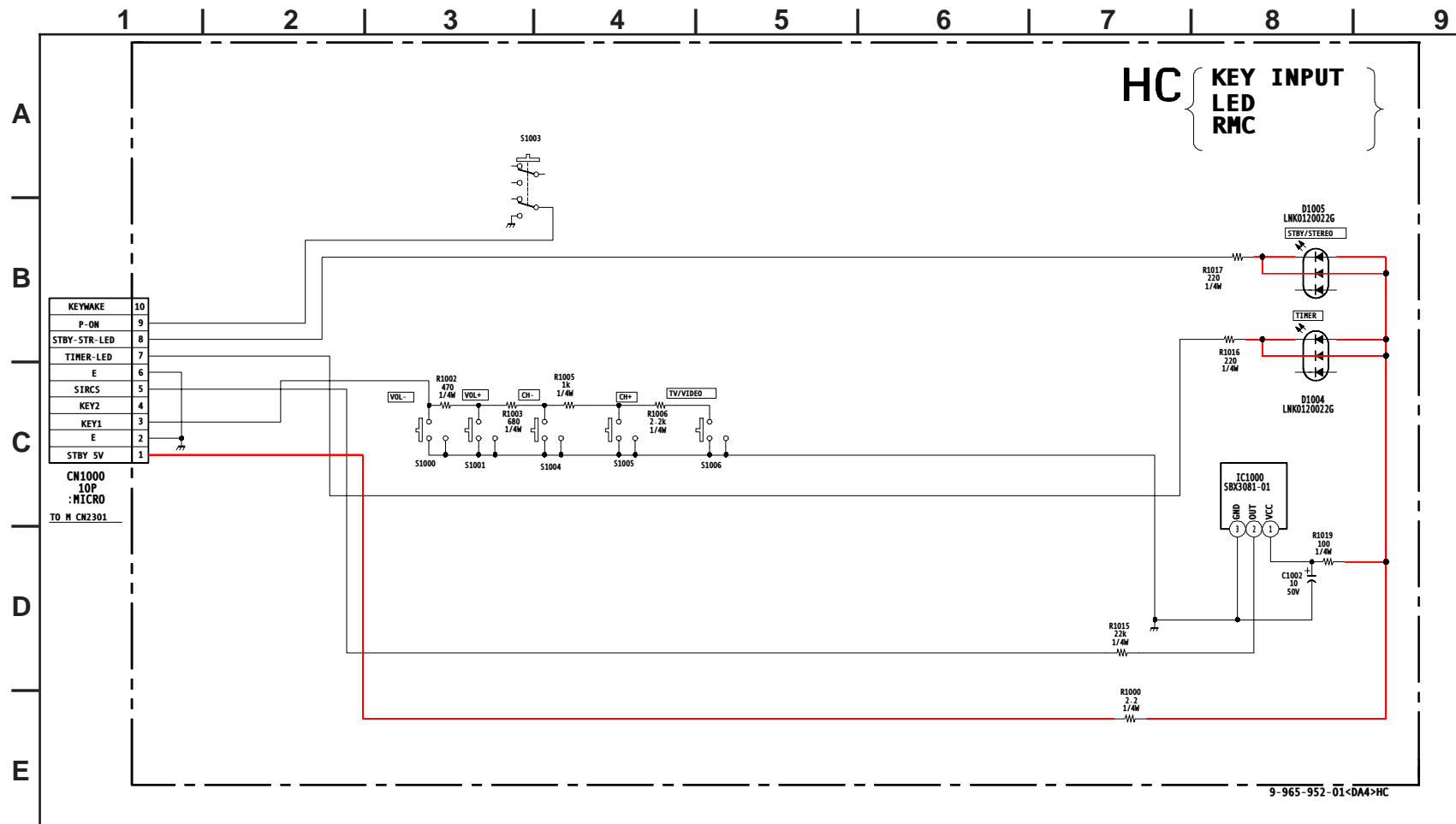
**HB** [FRONT TERMINAL]  
**COMPONENT SIDE**



**HB** [FRONT TERMINAL]  
**CONDUCTOR SIDE**



## HC BOARD SCHEMATIC DIAGRAM

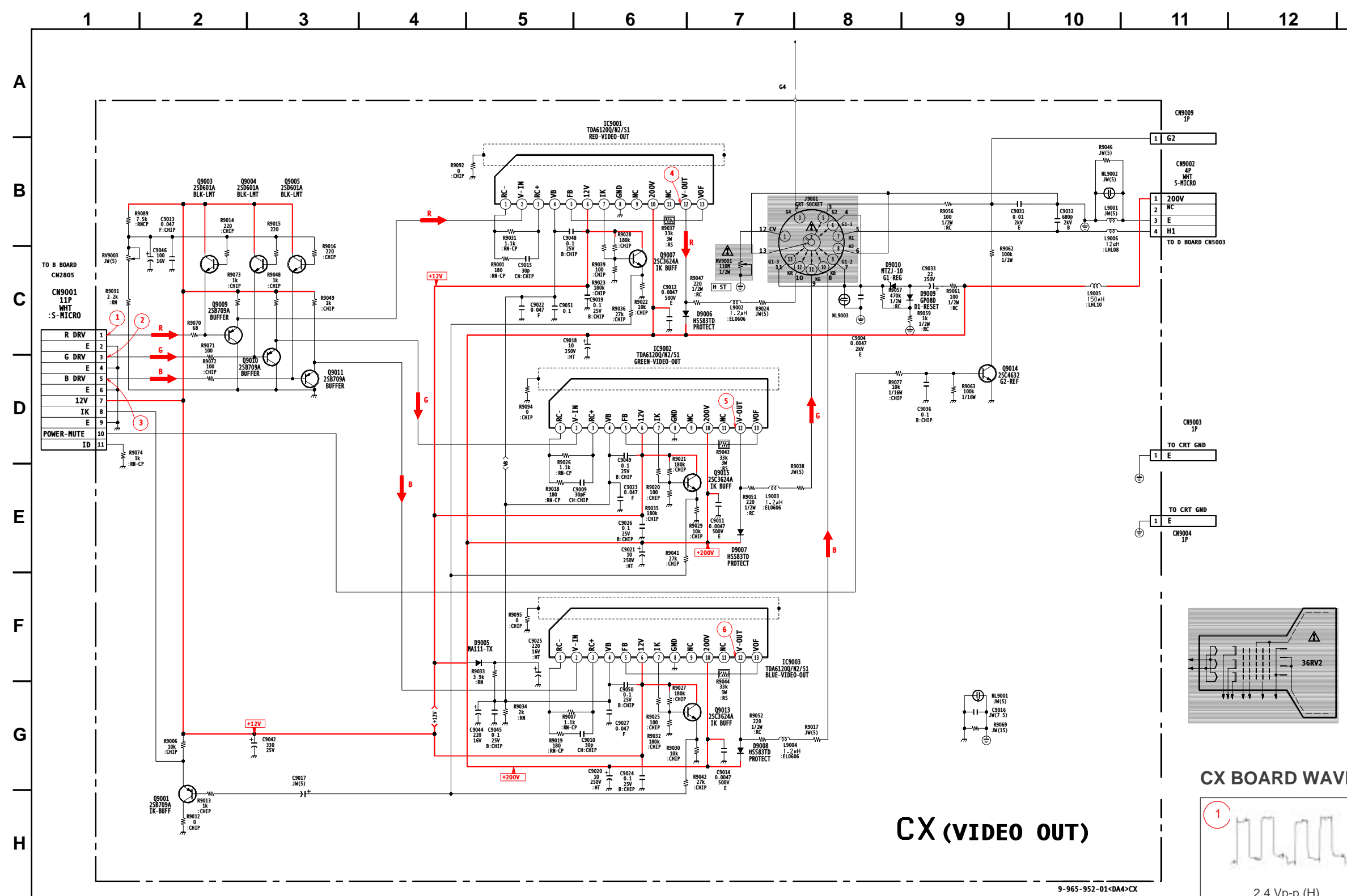


## COMPONENT SIDE



## CONDUCTOR SIDE

CX BOARD SCHEMATIC DIAGRAM



CX BOARD IC VOLTAGE LIST

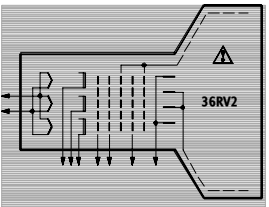
IC9001		IC9002		IC9003	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	0.0	1	0.0	1	0.0
2	3.5	2	3.5	2	3.5
3	5.0	3	5.0	3	5.0
4	3.5	4	3.5	4	3.5
5	0.0	5	0.0	5	0.0
6	12.0	6	12.0	6	12.0
7	9.4	7	9.4	7	9.4
8	GND	8	GND	8	GND
9	N/C	9	N/C	9	N/C
10	200.0	10	200.0	10	200.0
11	N/C	11	N/C	11	N/C
12	144.4	12	154.0	12	145.0
13	2.2	13	124.0	13	24.5

All voltages are in V.

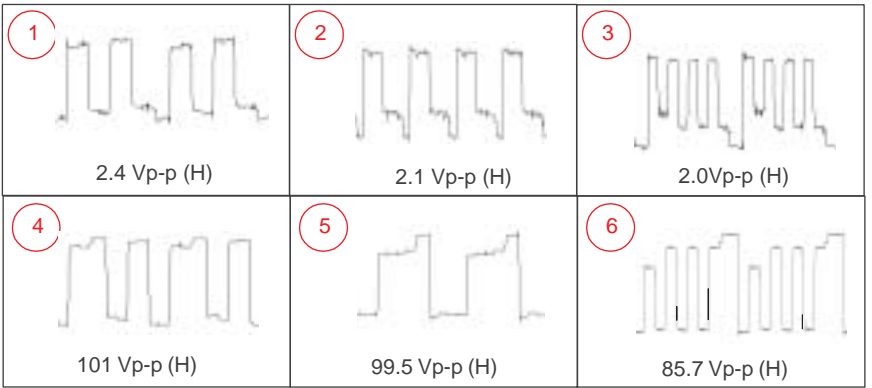
CX BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9001	8.6	GND	3.6
Q9003	2.2	12.0	3.6
Q9004	2.2	12.0	3.7
Q9005	2.2	12.0	3.5
Q9007	9.1	12.0	8.4
Q9009	3.7	GND	4.3
Q9010	3.7	GND	4.4
Q9011	3.5	GND	4.2
Q9013	9.0	12.0	8.5
Q9014	0.0	264.7	GND
Q9015	9.0	12.0	8.5

All voltages are in V.



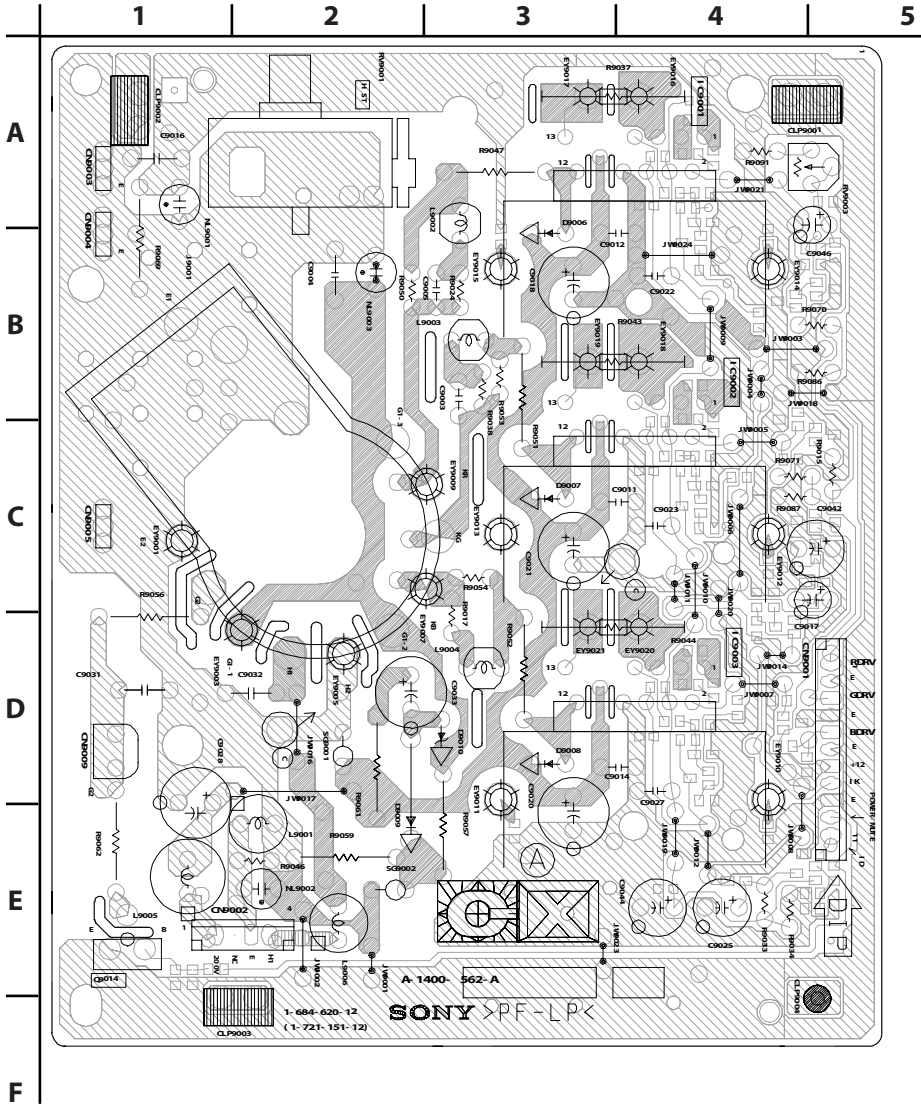
CX BOARD WAVEFORMS



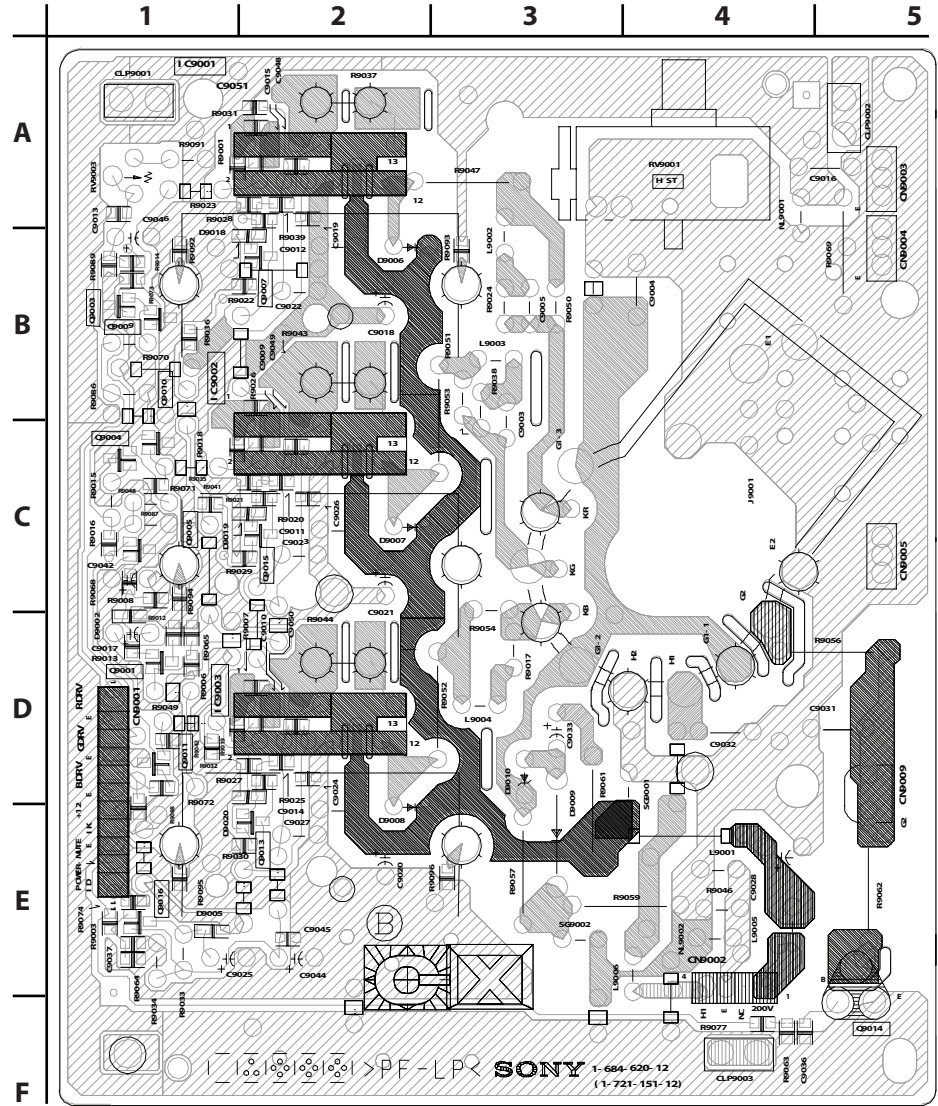
CX (VIDEO OUT)

9-965-952-01<BA4>CX

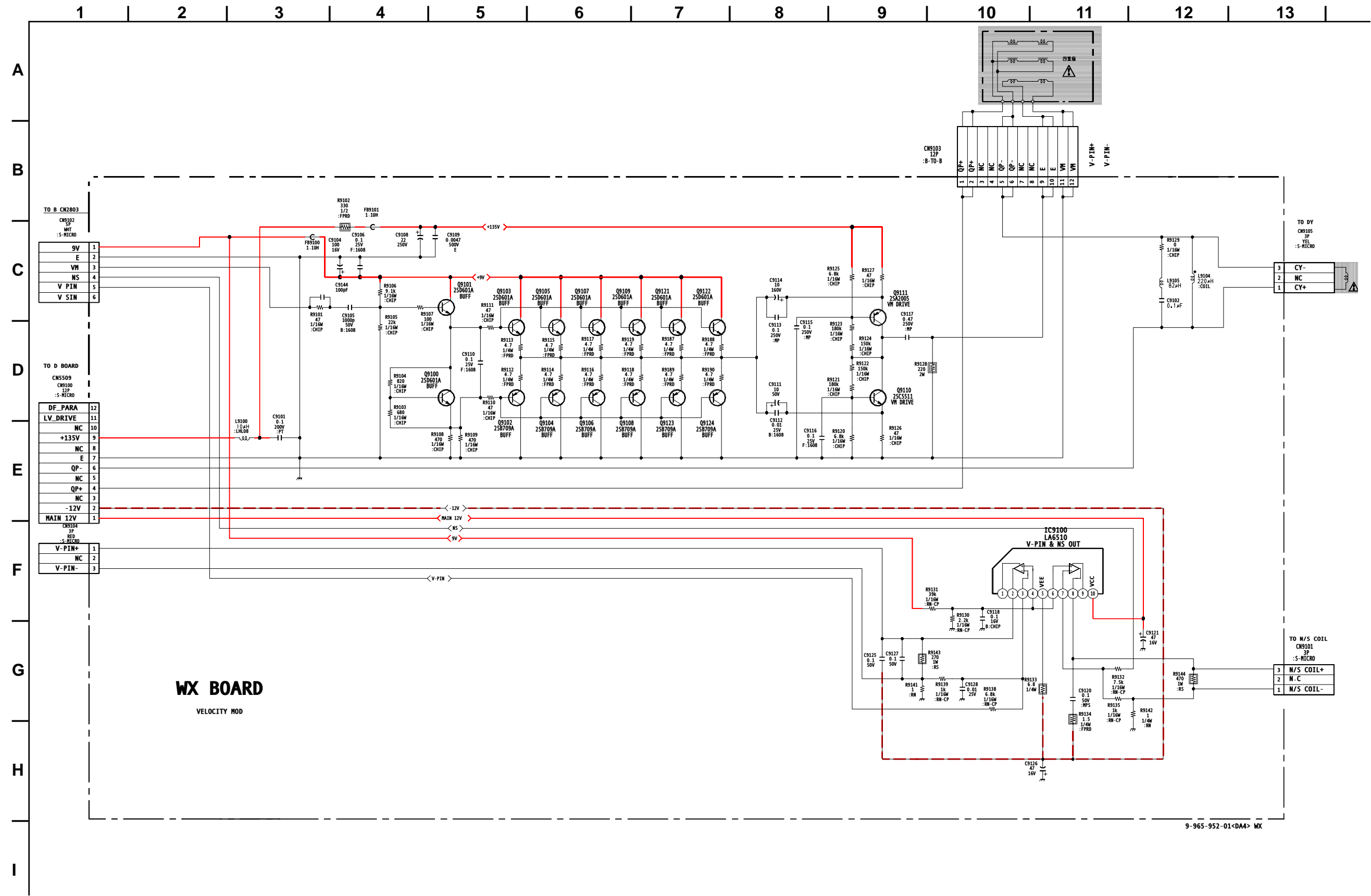
**CX** [VIDEO OUT]  
**COMPONENT SIDE**



**CX** [VIDEO OUT]  
**CONDUCTOR SIDE**



WX BOARD SCHEMATIC DIAGRAM



**WX BOARD IC VOLTAGE LIST**

IC9100		IC9102		IC9103	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	NC	1	0.0	1	6.0
2	0.0	2	0.0	2	3.5
3	0.0	3	0.0	3	3.6
4	0.5	4	0.0	4	-12.0
5	-12.0	5	-12.0	5	1.2
6	0.5	6	NC	6	1.2
7	0.5	7	NC	7	1.2
8	0.0	8	NC	8	12.0
9	NC	9	NC		
10	12.0	10	12.0		

All voltages are in V.

**WX BOARD TRANSISTOR VOLTAGE LIST**

	B	C	E
Q9100	4.3	5.2	3.6
Q9101	0.0	9.0	5.2
Q9102	3.6	GND	4.3
Q9103	5.1	9.0	4.5
Q9104	3.6	GND	4.3
Q9105	5.1	9.0	4.5
Q9106	3.6	GND	4.3
Q9107	5.1	9.0	4.5
Q9108	3.6	GND	4.3
Q9109	5.1	9.0	4.5
Q9110	0.8	66.7	0.2
Q9111	133.8	66.7	134.3
Q9112	0.6	12.0	1.2
Q9113	0.6	0.0	GND
Q9114	0.6	0.0	GND
Q9115	0.6	0.0	GND
Q9116	4.7	4.2	GND
Q9117	6.6	12.0	6.7
Q9118	6.6	GND	6.7
Q9121	5.1	9.0	4.5
Q9122	5.1	9.0	4.5
Q9123	3.6	GND	4.3
Q9124	3.6	GND	4.3
Q9125	5.7	12.0	6.3

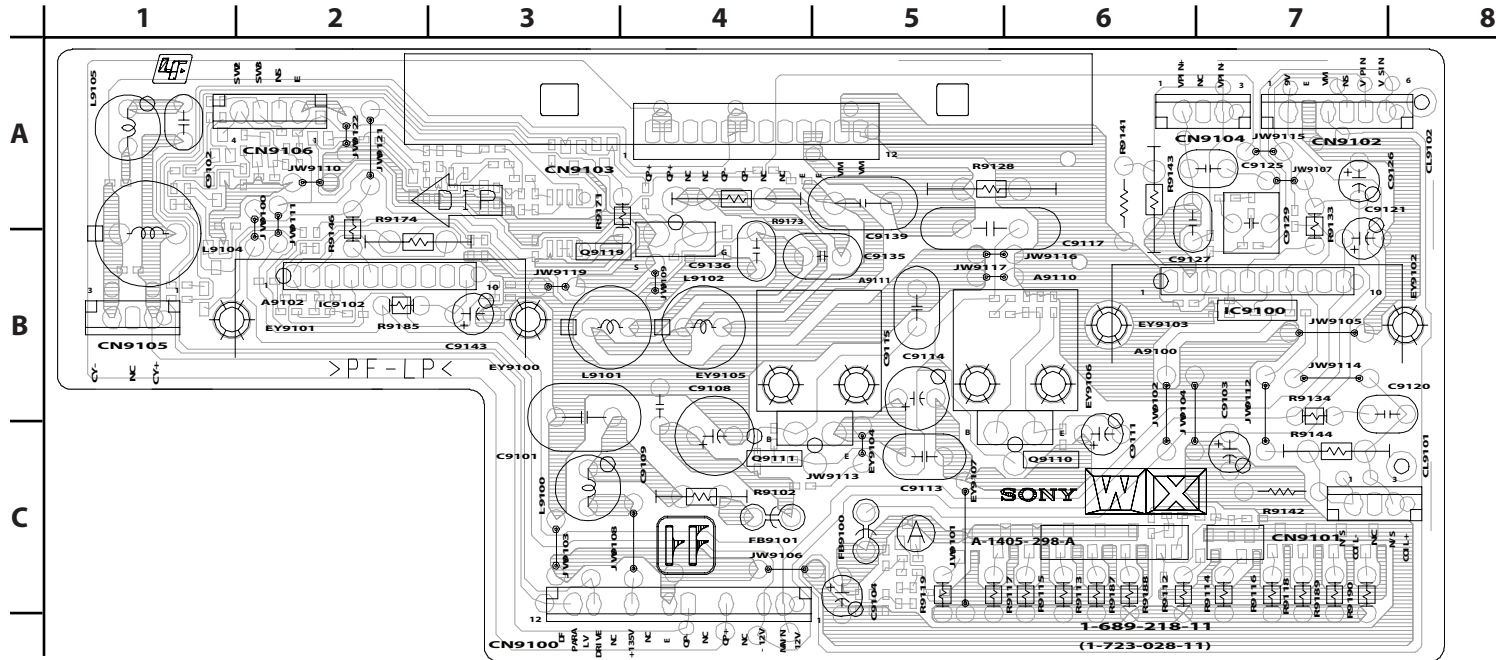
	D	G	S
Q9119	0.0	6.7	GND

All voltages are in V.



[VELOCITY MOD]

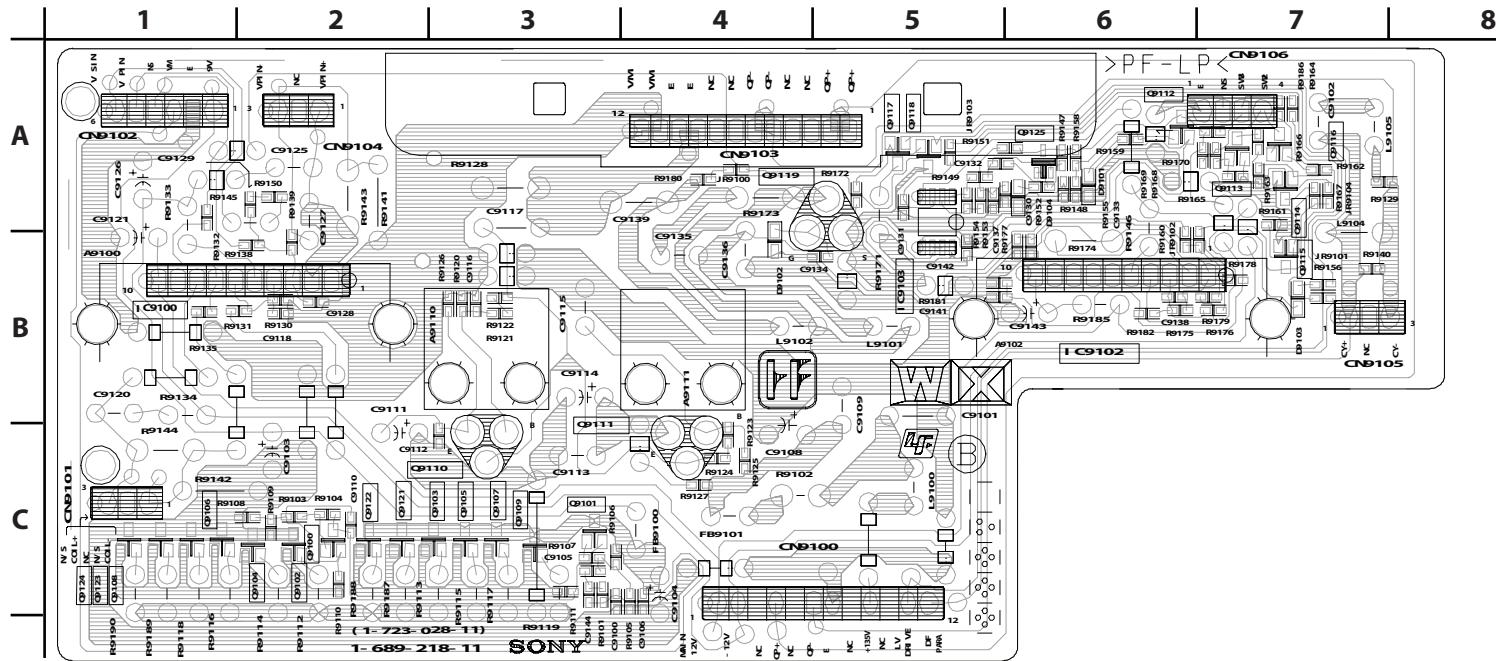
## COMPONENT SIDE



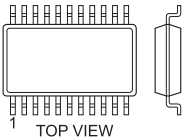
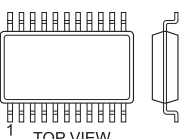
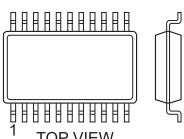
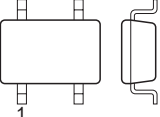
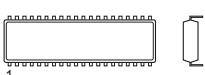
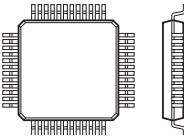
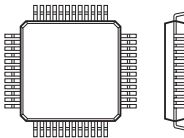
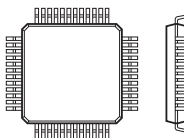
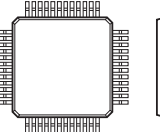
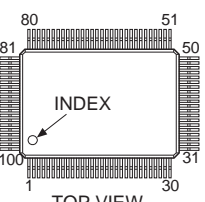
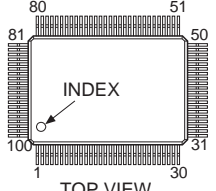
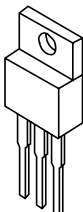
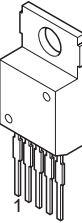
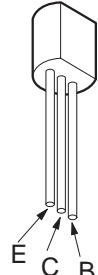
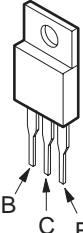
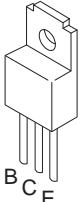
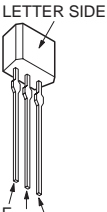
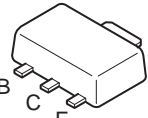
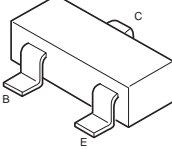
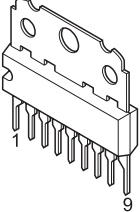
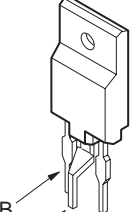
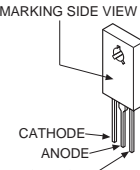
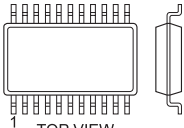


[VELOCITY MOD]

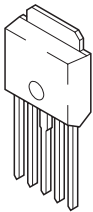
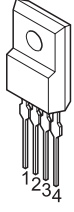
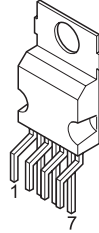
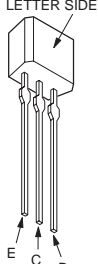
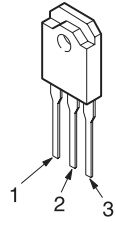
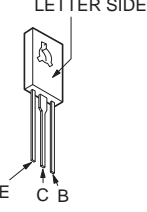
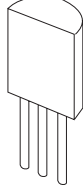
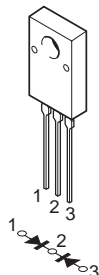
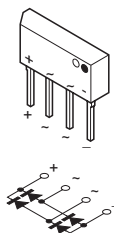
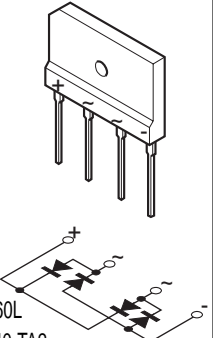
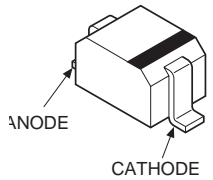
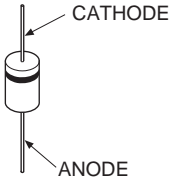
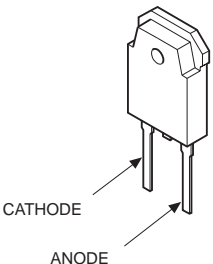
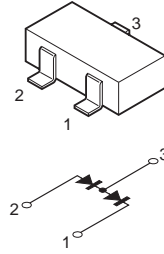
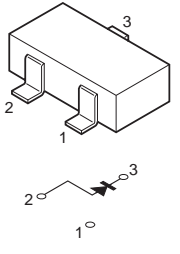
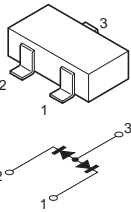
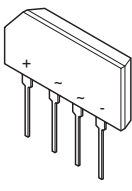
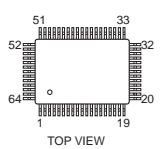
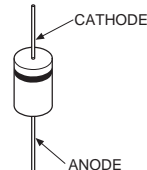
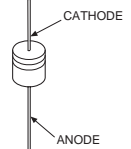
## CONDUCTOR SIDE



## 5-5. SEMICONDUCTORS (1 OF 2)

 <p>14pin</p> <p>M52055FP TLC2932IPW TLC2933IPWR-12</p>	 <p>16pin</p> <p>CXD2085M-T4 SN74LV4053ANSR</p>	 <p>32pin</p> <p>BH3868AFS-E2</p>	 <p>5pin</p> <p>PST9120NL PST9145NL TC7SET08FU(TE85L)</p>	 <p>22pin</p> <p>CXA2026AS</p>
 <p>32pin</p> <p>CXD2073Q-T4</p>	 <p>48pin</p> <p>CXA2103Q CXA2150Q</p>	 <p>64pin</p> <p>TLC5733AIPM</p>	 <p>240pin</p> <p>CXD9509AQ</p>	 <p>CXA2151Q</p>
 <p>M306V2ME-153FP</p>	 <p>NJM79M12FA</p>	 <p>LA6500-FA</p>	 <p>2SA1208S-TP 2SA1091O-TPE</p>	 <p>IRF614 IRFI644-G-LF36 IRFI9630GS</p>
 <p>2SA2005 2SC5511</p>	 <p>2SC3311A-QRSTA</p>	 <p>2SK2036(TE85L)</p>	 <p>DTA114EKA-T146 DTC114TKA-T146 DTC144EKA-T146 2SA1226 2SD601A-QRS-TX 2SB709A-QRS-TX 2SC2412K-T-146-QR 2SD2114KT146</p>	
 <p>TDA6111Q/N4</p>	 <p>2SC4632LS-CB7</p>	 <p>D5LC20U</p>	 <p>8pin</p> <p>NJM2901M-TE2 NJM2903M-TE2 NJM2904M-TE2 NJM4558E(TE2) TC7WU04FU(TE12R)</p>	

## SEMICONDUCTORS (2 OF 2)


 <p>PQ07VZ012P</p>	 <p>PQ09RD21 PQ05RF21 PQ12RF21 PQ30RV21</p>	 <p>STV9379</p>	 <p>2SA1776TV2Q 2SA1309A-QRSTA</p>	 <p>2SC3997S-SONY</p>
 <p>2SC2688-LK 2SC3840K</p>	 <p>UPC1093J</p>	 <p>D5SC4M D8LC40F</p>	 <p>S1VB20</p>	 <p>D6SB60L D1NL40-TA2</p>
 <p>MA111-TX MA113-TX UDZSTE-1710B UDZSTE-176.8B UDZSTE-17-12</p>	 <p>1SS133T-77 D1NL20U-TR ERC91-02E</p>	 <p>PG124S15</p>	 <p>MA153-TX</p>	 <p>MA3091-TX</p>
 <p>DAN202K-T-146</p>	 <p>D4SBS6-F</p>	 <p>CXA2069Q CXP85840A-039Q</p>	 <p>D1NL20U-TA2 ERA22-08TP3 ERC04-06SE GP08DPKG23 HSS83TD HZU11B1TRF RGP02-20EL-6394 MTZJ-77-22B</p>	
			 <p>D1NS4-TA2 MTZJ-T-77-15 MTZJ-T-77-15B MTZJ-T-77-33B MTZJ-T-77-10 MTZJ-T-77-12 MTZJ-T-77-13C MTZJ-T-77-2.0A MTZJ-T-77-22 MTZJ-T-77-3.0B</p> <p>MTZJ-T-77-3.9B MTZJ-T-77-33C MTZJ-T-77-4.7B MTZJ-T-77-5.1B MTZJ-T-77-7.5B RD5.6ES-T1B2</p>	


## SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

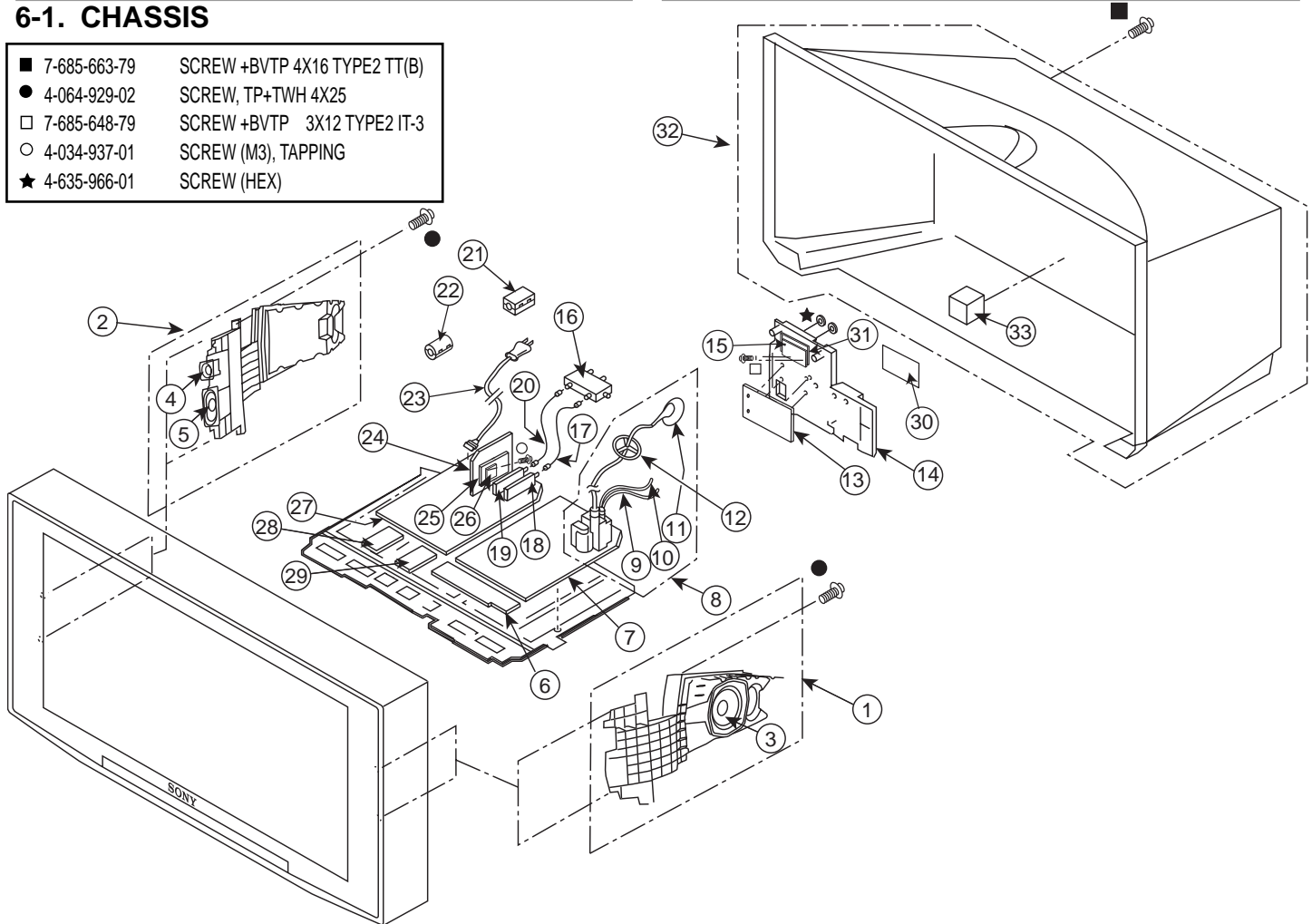
\* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.







**NOTE:** The components identified by shading and  mark are critical for safety. Replace only with part number specified.


**NOTE:** Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


### 6-1. CHASSIS

- 7-685-663-79 SCREW +BVTP 4X16 TYPE2 TT(B)
- 4-064-929-02 SCREW, TP+TWH 4X25
- 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3
- 4-034-937-01 SCREW (M3), TAPPING
- ★ 4-635-966-01 SCREW (HEX)



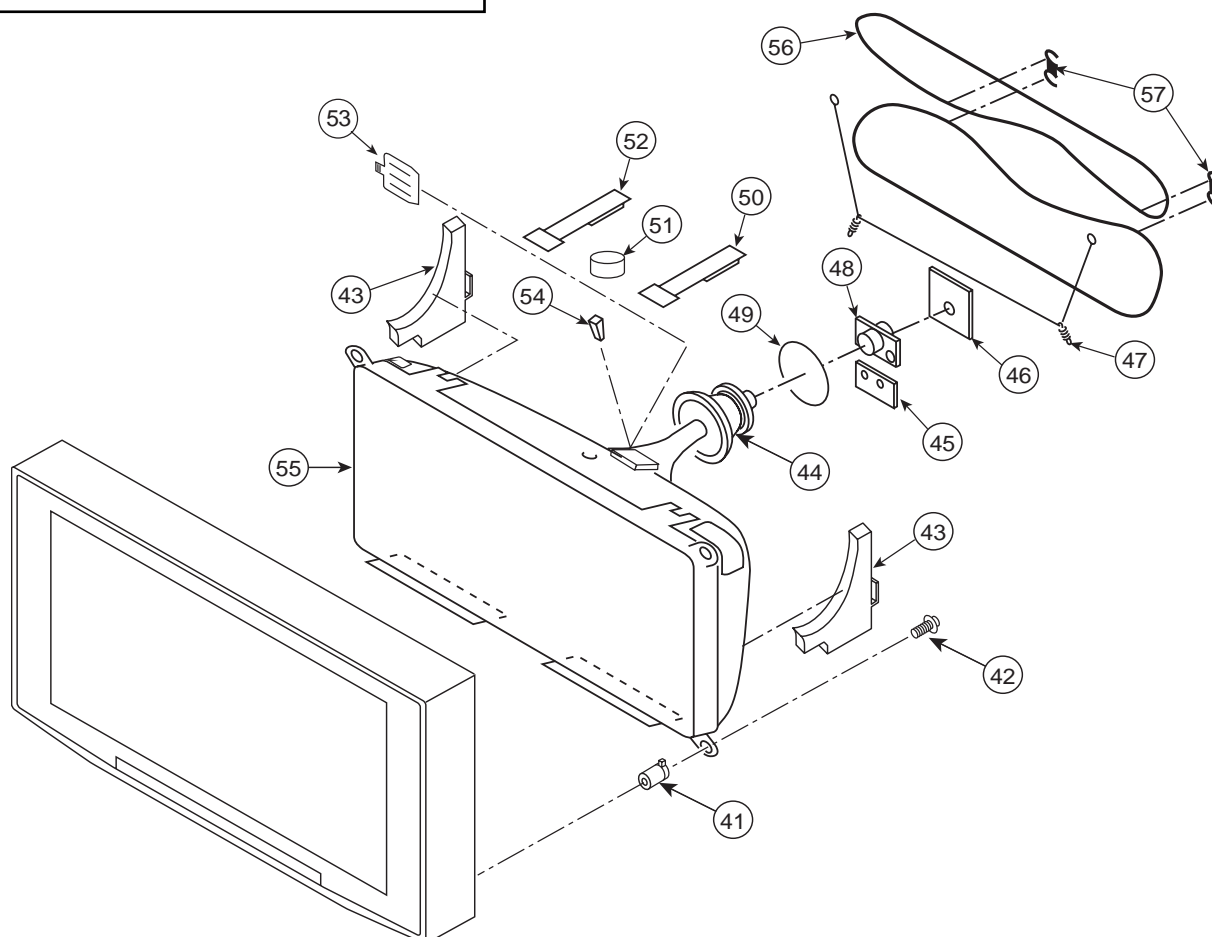
REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
1	1-825-510-21	SPEAKER BOX (RIGHT)	(3-5)	17	1-557-056-51	CABLE, P-P	
2	1-825-510-11	SPEAKER BOX (LEFT)	(3-5)	18	8-598-593-40	TUNER, FSS BTF-WA421	
3	1-825-405-11	LOUDSPEAKER (12CM)		19	8-598-594-20	TUNER, FSS BTF-FA421	
4	1-825-406-11	LOUDSPEAKER (5.2CM)		* 20	1-555-400-00	CABLE, PIN	
5	1-825-404-11	LOUDSPEAKER (5X9CM)		21	1-500-082-11	CLAMP, SLEEVE FERRITE	
* 6	A-1400-709-A	HC BOARD, MOUNTED		22	1-500-586-11	FILTER, CLAMP (FERRITE CORE)	
* 7	A-1302-534-A	D BOARD, COMPLETE		 23	1-769-837-11	CORD, POWER(WITH NOISE FILTER)	
The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. (See 9-11)				* 24	A-1300-320-A	M BOARD, COMPLETE	
 8	1-453-387-21	FBT ASSY/NX-6020//M3J4	(9-11)	* 25	A-1300-325-A	B BOARD, COMPLETE	
 9	1-900-805-22	CONNECTOR ASSY, G2 HV		* 26	A-1300-690-A	BM1C BOARD, COMPLETE	
 10	1-900-805-19	WIRE ASSY, FOCUS HV		* 27	A-1302-350-A	A BOARD, COMPLETE	
 11	1-251-715-22	CAP ASSY, HIGH-VOLTAGE		* 28	A-1405-868-A	HB (VAR) BOARD, MOUNTED	
12	4-084-918-01	HOLDER, HV CABLE		* 29	A-1300-323-A	HM BOARD, COMPLETE	
* 13	A-1300-321-A	U BOARD, COMPLETE		30	4-086-884-01	LABEL, TERMINAL	
14	4-086-882-01	BRACKET, U		31	X-4041-009-1	SHIELD ASSY, UD	
* 15	A-1300-324-A	UD BOARD, COMPLETE		32	X-4041-716-1	COVER ASSY, REAR	(33)
 16	1-771-787-13	SWITCH, RF ANTENNA		33	4-079-345-02	CUSHION, REAR COVER (18X18)	






**NOTE:** The components identified by shading and  mark are critical for safety. Replace only with part number specified.


**NOTE:** Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


## 6-2. PICTURE TUBE

● 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3



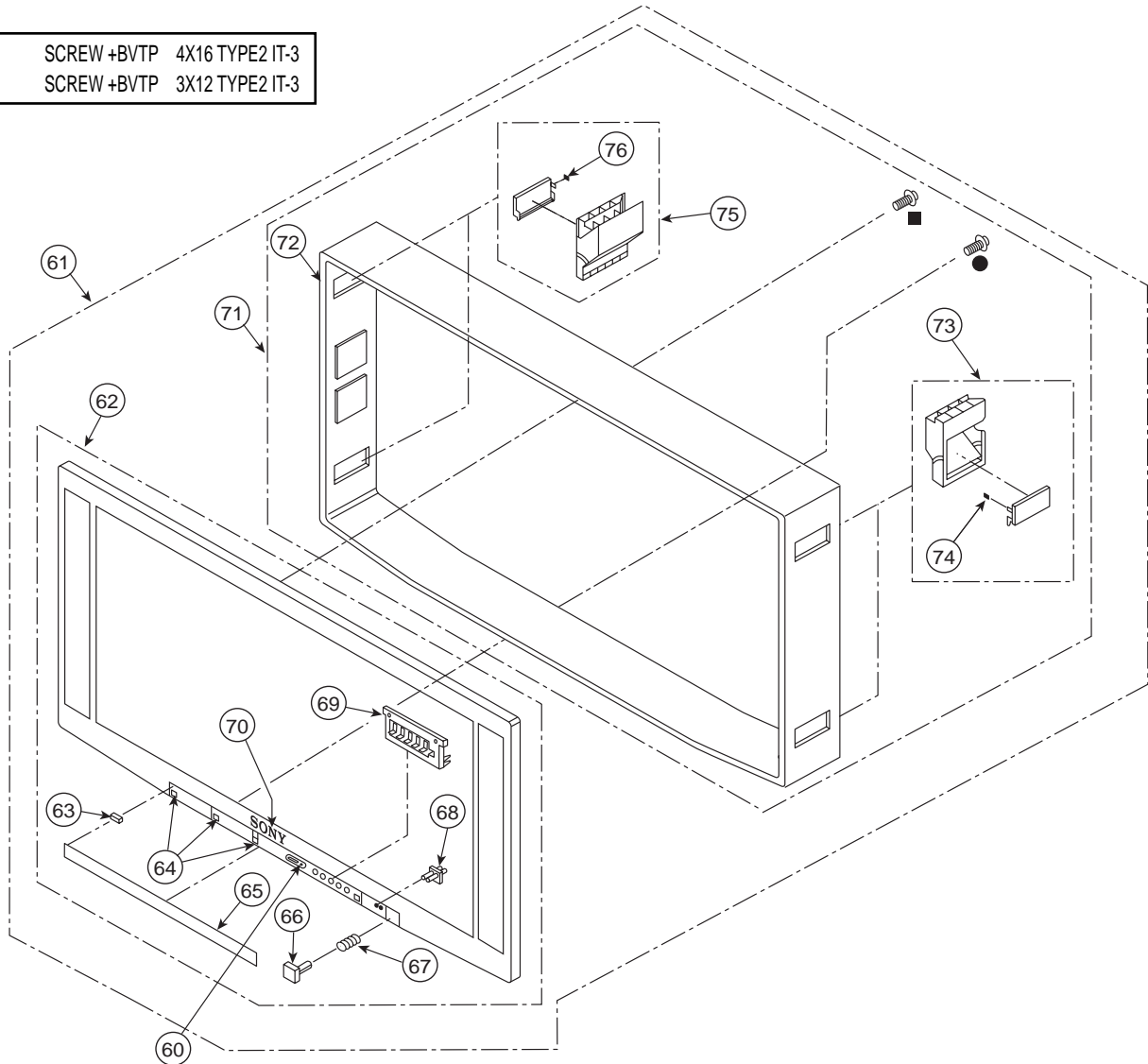
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
41	4-086-434-03	CRT SPACER	51	1-452-032-00	MAGNET,DISC
42	4-080-811-01	SCREW TAPPING 7+CROWN WASHER(L40)	52	4-083-414-01	PIECE A(110), CONV CORRECT
43	X-4038-678-5	SUPPORTER ASSY, CRT	53	4-081-170-01	PLATE, TLH CORRECTION
 44	1-451-551-13	DEFLECTION YOKE (Y32VEC-T)	54	4-086-199-02	SPACER, DY
* 45	A-1405-827-A	WX (VAR) BOARD, MOUNTED	 55	8-735-202-05	CRT 32RVE
* 46	A-1400-562-A	CX BOARD, MOUNTED	 56	1-456-474-11	DEGAUSSING COIL
47	4-065-852-01	SPRING, EXTENSION	57	4-065-895-11	HOLDER, DGC
 48	8-453-018-11	NECK ASSEMBLY NA2918-M			
 49	1-451-498-31	COIL, NA ROTATION			
50	4-051-734-21	PIECE B(120), CONV. CORRECT			

**NOTE:** The components identified by shading and  mark are critical for safety. Replace only with part number specified.

**NOTE:** Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


### 6-3. BEZNET


- 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3
- 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3




REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
60	4-087-087-11	GUIDE, MS LED		72	4-080-389-31	CABINET	
61	X-4041-715-1	BEZNET ASSY	(62-76)	73	X-4041-824-1	HANDLE ASSY, RIGHT	(74)
* 62	X-4041-718-1	BEZEL ASSY	(63-70)	74	4-081-009-01	TAPE (D)	
63	4-076-673-03	DAMPER, DOOR		75	X-4041-823-1	HANDLE ASSY, LEFT	(76)
64	4-072-630-01	CUSHION, DOOR		76	4-081-009-01	TAPE (D)	
65	4-089-125-11	DOOR					
66	4-080-364-41	BUTTON, POWER					
67	4-042-593-01	SPRING, COMPRESSION					
68	4-080-361-11	GUIDE, LED					
69	4-080-362-12	BUTTON, MULTI					
70	3-704-179-01	EMBLEM (NO.9), SONY					
71	X-4041-717-1	CABINET ASSY	(72-76)				

## SECTION 7: ELECTRICAL PARTS LIST

**NOTE:** The components identified by shading and  mark are critical for safety. Replace only with part number specified.

**NOTE:** Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components in this manual identified by the following symbol:  indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

\* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

### RESISTORS

- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.



When ordering parts by reference number, please include the board name.



Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.

Data is provided for reference only.

\* **A-1300-320-A M BOARD, COMPLETE**

### CAPACITOR

C2001	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2002	1-126-933-11	ELECT	100µF	20%	16V
C2003	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2004	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C2005	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2006	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2007	1-126-964-11	ELECT	10µF	20%	50V
C2010	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2011	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2012	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2014	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2015	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2017	1-126-964-11	ELECT	10µF	20%	50V
C2019	1-126-964-11	ELECT	10µF	20%	50V
C2020	1-126-964-11	ELECT	10µF	20%	50V
C2022	1-126-964-11	ELECT	10µF	20%	50V
C2024	1-126-933-11	ELECT	100µF	20%	16V
C2025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2027	1-126-964-11	ELECT	10µF	20%	50V
C2028	1-126-933-11	ELECT	100µF	20%	16V
C2029	1-126-964-11	ELECT	10µF	20%	50V
C2031	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2032	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2033	1-126-933-11	ELECT	100µF	20%	16V
C2034	1-162-917-11	CERAMIC CHIP	15pF	5%	50V

C2035	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2036	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2037	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2038	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C2039	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2040	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2041	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2042	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2043	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2044	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2045	1-126-933-11	ELECT	100µF	20%	16V
C2046	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2047	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2048	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2049	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C2050	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2051	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2052	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2053	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2054	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2055	1-126-933-11	ELECT	100µF	20%	16V
C2056	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2057	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2058	1-126-963-11	ELECT	4.7µF	20%	50V
C2059	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2060	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2061	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2063	1-126-963-11	ELECT	4.7µF	20%	50V
C2064	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2065	1-126-933-11	ELECT	100µF	20%	16V
C2066	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2067	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2068	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2069	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2070	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2117	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2071	1-126-963-11	ELECT	4.7μF	20%	50V	C2118	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2072	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2120	1-126-964-11	ELECT	10μF	20%	50V
C2073	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2121	1-126-964-11	ELECT	10μF	20%	50V
C2074	1-126-933-11	ELECT	100μF	20%	16V	C2122	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2075	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2123	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2076	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2124	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2077	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2126	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2078	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2130	1-126-933-11	ELECT	100μF	20%	16V
C2079	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2131	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2080	1-126-963-11	ELECT	4.7μF	20%	50V	C2132	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2081	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2134	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2082	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2135	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2083	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2200	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2084	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2201	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2085	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2202	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2086	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2204	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2087	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2205	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2088	1-216-864-11	SHORT CHIP				C2206	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2089	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2207	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2090	1-216-864-11	SHORT CHIP				C2208	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2091	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C2209	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2092	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C2210	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2096	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2211	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2097	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2212	1-126-933-11	ELECT	100μF	20%	16V
C2098	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2213	1-126-947-11	ELECT	47μF	20%	35V
C2099	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2214	1-126-933-11	ELECT	100μF	20%	16V
C2100	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2215	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2101	1-126-933-11	ELECT	100μF	20%	16V	C2216	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2102	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2217	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2103	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2218	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2104	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2219	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2105	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2220	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2106	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2221	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2107	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2222	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2108	1-126-933-11	ELECT	100μF	20%	16V	C2223	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2109	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2224	1-115-156-11	CERAMIC CHIP	1μF		10V
C2110	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2225	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2111	1-126-964-11	ELECT	10μF	20%	50V	C2226	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2112	1-126-964-11	ELECT	10μF	20%	50V	C2227	1-126-933-11	ELECT	100μF	20%	16V
C2113	1-126-964-11	ELECT	10μF	20%	50V	C2228	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2114	1-126-964-11	ELECT	10μF	20%	50V	C2229	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2115	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2230	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2116	1-126-933-11	ELECT	100μF	20%	16V	C2231	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2232	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2349	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C2233	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2352	1-126-933-11	ELECT	100μF	20%	16V
C2234	1-126-933-11	ELECT	100μF	20%	16V	C2353	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2235	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2354	1-162-907-11	CERAMIC CHIP	2pF	0.25pF	50V
C2236	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2355	1-164-245-11	CERAMIC CHIP	0.015μF	10%	25V
C2237	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2358	1-126-935-11	ELECT	470μF	20%	16V
C2238	1-126-933-11	ELECT	100μF	20%	16V	C2359	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2239	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2361	1-126-933-11	ELECT	100μF	20%	16V
C2240	1-126-933-11	ELECT	100μF	20%	16V	C2362	1-126-933-11	ELECT	100μF	20%	16V
C2241	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2364	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2242	1-126-934-11	ELECT	220μF	20%	16V	C2366	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2243	1-126-934-11	ELECT	220μF	20%	16V	C2367	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2244	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2368	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
C2245	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2369	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C2246	1-126-947-11	ELECT	47μF	20%	35V	C2370	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2247	1-162-975-11	CERAMIC CHIP	24pF	5%	50V	C2371	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C2248	1-162-975-11	CERAMIC CHIP	24pF	5%	50V	C2372	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2249	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C2373	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2250	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C2374	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2251	1-164-392-11	CERAMIC CHIP	390pF	5%	50V	C2375	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2300	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C2376	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
C2301	1-126-933-11	ELECT	100μF	20%	16V	C2500	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2302	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2501	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2303	8-719-069-55	DIODE	UDZSTE-175.6B			C2503	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2304	8-719-069-55	DIODE	UDZSTE-175.6B			C2504	1-126-933-11	ELECT	100μF	20%	16V
C2305	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2506	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2306	1-162-920-11	CERAMIC CHIP	27pF	5%	50V	C2508	1-126-933-11	ELECT	100μF	20%	16V
C2307	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2510	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2308	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2512	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2309	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2513	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2310	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2514	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2311	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2515	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2312	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V	C2516	1-126-933-11	ELECT	100μF	20%	16V
C2313	1-115-156-11	CERAMIC CHIP	1μF		10V	C2517	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2314	8-719-069-55	DIODE	UDZSTE-175.6B			C2518	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2315	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2519	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2316	8-719-069-55	DIODE	UDZSTE-175.6B			C2520	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2317	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2521	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2318	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2522	1-126-947-11	ELECT	47μF	20%	35V
C2319	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2523	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2320	8-719-069-55	DIODE	UDZSTE-175.6B			C2524	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2331	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2525	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2347	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2527	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2348	1-126-933-11	ELECT	100μF	20%	16V	C2528	1-162-962-11	CERAMIC CHIP	470pF	10%	50V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
C2530	1-126-947-11	ELECT	47μF	20%	35V	<u>DIODE</u>			
C2532	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V	D2302	8-719-914-44	DIODE	DAP202K
C2533	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	D2303	8-719-914-44	DIODE	DAP202K
C2534	1-126-947-11	ELECT	47μF	20%	35V	D2310	8-719-083-57	DIODE	UDZSTE-173.6B
C2535	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	D2500	8-719-404-50	DIODE	MA111-TX
						D2501	8-719-404-50	DIODE	MA111-TX
C2536	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V				
C2538	1-126-947-11	ELECT	47μF	20%	35V	D2502	8-719-404-50	DIODE	MA111-TX
C2539	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D2503	8-719-404-50	DIODE	MA111-TX
C2540	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V	D2504	8-719-404-50	DIODE	MA111-TX
C2541	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V				
						<u>FERRITE BEAD</u>			
C2542	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2001	1-414-229-11	FERRITE	0μH
C2543	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2002	1-414-229-11	FERRITE	0μH
C2544	1-126-963-11	ELECT	4.7μF	20%	50V	FB2200	1-414-229-11	FERRITE	0μH
C2545	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2500	1-216-864-11	SHORT CHIP	
C2546	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2501	1-216-864-11	SHORT CHIP	
C2548	1-126-947-11	ELECT	47μF	20%	35V				
C2549	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V				
C2550	1-126-963-11	ELECT	4.7μF	20%	50V	FB2503	1-216-864-11	SHORT CHIP	
C2551	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2504	1-216-864-11	SHORT CHIP	
C2553	1-126-947-11	ELECT	47μF	20%	35V	FB2505	1-414-229-11	FERRITE	0μH
						FB2507	1-414-229-11	FERRITE	0μH
C2554	1-126-947-11	ELECT	47μF	20%	35V	FB2508	1-414-229-11	FERRITE	0μH
C2558	1-126-963-11	ELECT	4.7μF	20%	50V				
C2559	1-126-933-11	ELECT	100μF	20%	16V				
C2560	1-126-947-11	ELECT	47μF	20%	35V	FB2509	1-216-864-11	SHORT CHIP	
C2561	1-126-963-11	ELECT	4.7μF	20%	50V	FB2510	1-414-229-11	FERRITE	0μH
						FB2511	1-216-864-11	SHORT CHIP	
C2563	1-126-961-11	ELECT	2.2μF	20%	50V	FB2512	1-414-229-11	FERRITE	0μH
C2564	1-126-961-11	ELECT	2.2μF	20%	50V	FB2513	1-216-864-11	SHORT CHIP	
C2565	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V				
C2566	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2514	1-216-864-11	SHORT CHIP	
C2569	1-126-961-11	ELECT	2.2μF	20%	50V	FB2515	1-414-229-11	FERRITE	0μH
						FB2516	1-414-229-11	FERRITE	0μH
C2570	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2517	1-414-229-11	FERRITE	0μH
C2571	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB2518	1-414-229-11	FERRITE	0μH
C2572	1-126-960-11	ELECT	1μF	20%	50V				
C2574	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2519	1-414-229-11	FERRITE	0μH
C2575	1-126-960-11	ELECT	1μF	20%	50V	FB2520	1-216-864-11	SHORT CHIP	
						FB2521	1-216-864-11	SHORT CHIP	
C2579	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2522	1-414-229-11	FERRITE	0μH
C2582	1-126-933-11	ELECT	100μF	20%	16V				
C2584	1-126-933-11	ELECT	100μF	20%	16V				
						<u>FILTER</u>			
	<u>CONNECTOR</u>					FL2001	1-239-848-21	FILTER, LOW PASS	
						FL2002	1-239-848-21	FILTER, LOW PASS	
	CN2006	1-793-174-11	SOCKET,PC CONNECTOR (PC BOARD)			FL2003	1-239-848-21	FILTER, LOW PASS	
*	CN2301	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)		10P	FL2201	1-239-848-21	FILTER, LOW PASS	
*	CN2304	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)		11P	FL2202	1-239-848-21	FILTER, LOW PASS	
	CN2305	1-770-721-11	CONNECTOR, BOARD TO BOARD		4P				



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
FL2203	1-239-848-21	FILTER, LOW PASS		L2008	1-469-555-21	INDUCTOR	10μH
FL2204	1-239-848-21	FILTER, LOW PASS		L2009	1-469-555-21	INDUCTOR	10μH
				L2010	1-469-555-21	INDUCTOR	10μH
				L2011	1-469-555-21	INDUCTOR	10μH
				L2012	1-469-555-21	INDUCTOR	10μH
	<b>IC</b>						
IC2001	8-752-394-69	IC	CXD2073Q-T4	L2013	1-469-555-21	INDUCTOR	10μH
IC2004	8-752-102-21	IC	CXA2103AQ	L2200	1-469-555-21	INDUCTOR	10μH
IC2005	8-752-102-21	IC	CXA2103AQ	L2201	1-469-555-21	INDUCTOR	10μH
IC2006	8-752-103-44	IC	CXA2171Q	L2202	1-469-555-21	INDUCTOR	10μH
IC2008	8-759-448-68	IC	NJM2283V-TE1	L2203	1-216-001-00	RES-CHIP	10      5%      1/10W
IC2009	8-759-549-07	IC	SN74LV157APWR	L2204	1-469-555-21	INDUCTOR	10μH
IC2010	8-759-549-07	IC	SN74LV157APWR	L2205	1-216-001-00	RES-CHIP	10      5%      1/10W
IC2200	6-700-960-01	IC	UPD64083GF-3BA	L2206	1-469-555-21	INDUCTOR	10μH
IC2201	6-700-399-01	IC	UPC2925T-E1	L2207	1-469-553-21	INDUCTOR	4.7μH
IC2300	6-802-655-01	IC	M306V7MG-050FP	L2303	1-469-555-21	INDUCTOR	10μH
IC2301	6-801-375-01	IC	PST9129NL	L2501	1-412-537-31	INDUCTOR	100μH
IC2302	6-704-573-01	IC	M24C32-WMN6T(B)	L2502	1-216-295-91	SHORT CHIP	
IC2305	8-759-641-26	IC	NJM2391DL1-33(TE1)				
IC2500	8-759-394-57	IC	PST593C-MMP-4P				
IC2501	6-801-750-01	IC	TC94A04F-014				
					<b>TRANSISTOR</b>		
IC2502	8-759-331-71	IC	NJM4558E(TE2)	Q2001	8-729-422-27	TRANSISTOR	2SD601A-Q
IC2504	8-759-642-22	IC	UPC29M05T-E2	Q2002	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q2003	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
				Q2004	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q2005	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
	<b>CHIP CONDUCTOR</b>						
JR2001	1-216-864-11	SHORT CHIP		Q2006	8-729-422-27	TRANSISTOR	2SD601A-Q
JR2002	1-216-864-11	SHORT CHIP		Q2007	8-729-422-27	TRANSISTOR	2SD601A-Q
JR2003	1-216-864-11	SHORT CHIP		Q2008	8-729-422-27	TRANSISTOR	2SD601A-Q
JR2004	1-216-864-11	SHORT CHIP		Q2009	8-729-422-27	TRANSISTOR	2SD601A-Q
JR2005	1-216-864-11	SHORT CHIP		Q2010	8-729-422-27	TRANSISTOR	2SD601A-Q
JR2010	1-216-864-11	SHORT CHIP		Q2011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR2011	1-216-864-11	SHORT CHIP		Q2012	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR2012	1-216-864-11	SHORT CHIP		Q2013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR2013	1-216-864-11	SHORT CHIP		Q2014	8-729-422-27	TRANSISTOR	2SD601A-Q
JR2014	1-216-864-11	SHORT CHIP		Q2015	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR2015	1-216-864-11	SHORT CHIP					
				Q2016	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q2018	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q2019	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q2200	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
				Q2201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
	<b>COIL</b>						
L2001	1-469-555-21	INDUCTOR	10μH	Q2202	8-729-422-27	TRANSISTOR	2SD601A-Q
L2003	1-469-555-21	INDUCTOR	10μH	Q2203	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L2004	1-469-555-21	INDUCTOR	10μH	Q2204	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L2005	1-469-555-21	INDUCTOR	10μH	Q2205	8-729-422-27	TRANSISTOR	2SD601A-Q
L2006	1-469-555-21	INDUCTOR	10μH				
L2007	1-469-555-21	INDUCTOR	10μH				



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
Q2206	8-729-422-27	TRANSISTOR	2SD601A-Q	<b>RESISTOR</b>			
Q2207	8-729-422-27	TRANSISTOR	2SD601A-Q	R2001	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2208	8-729-422-27	TRANSISTOR	2SD601A-Q	R2002	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2209	8-729-422-27	TRANSISTOR	2SD601A-Q	R2003	1-218-686-11	METAL CHIP	560 0.50% 1/10W
Q2210	8-729-422-27	TRANSISTOR	2SD601A-Q	R2004	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2211	8-729-422-27	TRANSISTOR	2SD601A-Q	R2005	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2212	8-729-422-27	TRANSISTOR	2SD601A-Q	R2006	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2213	8-729-422-27	TRANSISTOR	2SD601A-Q	R2007	1-218-708-11	METAL CHIP	4.7K 0.50% 1/10W
Q2214	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2008	1-218-692-11	METAL CHIP	1K 0.50% 1/10W
Q2215	8-729-422-27	TRANSISTOR	2SD601A-Q	R2009	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2216	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2010	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2301	8-729-422-27	TRANSISTOR	2SD601A-Q	R2011	1-218-686-11	METAL CHIP	560 0.50% 1/10W
Q2302	8-729-422-27	TRANSISTOR	2SD601A-Q	R2012	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2303	8-729-422-27	TRANSISTOR	2SD601A-Q	R2013	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2304	8-729-422-27	TRANSISTOR	2SD601A-Q	R2014	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2015	1-218-734-11	METAL CHIP	56K 0.50% 1/10W
Q2311	8-729-422-27	TRANSISTOR	2SD601A-Q	R2016	1-216-839-11	METAL CHIP	33K 5% 1/10W
Q2312	8-729-422-27	TRANSISTOR	2SD601A-Q	R2017	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q2313	8-729-422-27	TRANSISTOR	2SD601A-Q	R2018	1-216-812-11	METAL CHIP	180 5% 1/10W
Q2314	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2020	1-216-811-11	METAL CHIP	150 5% 1/10W
Q2315	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2022	1-218-704-11	METAL CHIP	3.3K 0.50% 1/10W
Q2316	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2023	1-216-839-11	METAL CHIP	33K 5% 1/10W
Q2317	8-729-422-27	TRANSISTOR	2SD601A-Q	R2024	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q2318	8-729-422-27	TRANSISTOR	2SD601A-Q	R2025	1-218-700-11	METAL CHIP	2.2K 0.50% 1/10W
Q2320	8-729-422-27	TRANSISTOR	2SD601A-Q	R2026	1-218-704-11	METAL CHIP	3.3K 0.50% 1/10W
Q2321	8-729-422-27	TRANSISTOR	2SD601A-Q	R2027	1-216-864-11	SHORT CHIP	
Q2322	8-729-422-27	TRANSISTOR	2SD601A-Q	R2030	1-216-817-11	METAL CHIP	470 5% 1/10W
Q2323	8-729-422-27	TRANSISTOR	2SD601A-Q	R2032	1-216-817-11	METAL CHIP	470 5% 1/10W
Q2324	8-729-422-27	TRANSISTOR	2SD601A-Q	R2035	1-216-817-11	METAL CHIP	470 5% 1/10W
Q2500	8-729-422-27	TRANSISTOR	2SD601A-Q	R2036	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q2501	8-729-422-27	TRANSISTOR	2SD601A-Q	R2040	1-216-817-11	METAL CHIP	470 5% 1/10W
Q2502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2041	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q2503	8-729-422-27	TRANSISTOR	2SD601A-Q	R2045	1-218-686-11	METAL CHIP	560 0.50% 1/10W
Q2504	8-729-422-27	TRANSISTOR	2SD601A-Q	R2046	1-218-686-11	METAL CHIP	560 0.50% 1/10W
Q2505	8-729-422-27	TRANSISTOR	2SD601A-Q	R2048	1-218-710-11	METAL CHIP	5.6K 0.50% 1/10W
Q2506	8-729-422-27	TRANSISTOR	2SD601A-Q	R2049	1-218-710-11	METAL CHIP	5.6K 0.50% 1/10W
Q2507	8-729-422-27	TRANSISTOR	2SD601A-Q	R2050	1-216-817-11	METAL CHIP	470 5% 1/10W
Q2508	8-729-422-27	TRANSISTOR	2SD601A-Q	R2051	1-216-817-11	METAL CHIP	470 5% 1/10W
Q2509	8-729-422-27	TRANSISTOR	2SD601A-Q	R2052	1-216-835-11	METAL CHIP	15K 5% 1/10W
Q2510	8-729-422-27	TRANSISTOR	2SD601A-Q	R2053	1-216-864-11	SHORT CHIP	
Q2511	8-729-422-27	TRANSISTOR	2SD601A-Q	R2054	1-216-835-11	METAL CHIP	15K 5% 1/10W
Q2512	8-729-422-27	TRANSISTOR	2SD601A-Q	R2055	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2513	8-729-422-27	TRANSISTOR	2SD601A-Q	R2056	1-216-809-11	METAL CHIP	100 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2057	1-216-809-11	METAL CHIP	100	5%	1/10W	R2131	1-216-809-11	METAL CHIP	100	5%	1/10W
R2058	1-216-809-11	METAL CHIP	100	5%	1/10W	R2133	1-216-864-11	SHORT CHIP			
R2059	1-216-809-11	METAL CHIP	100	5%	1/10W	R2201	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2061	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R2202	1-216-809-11	METAL CHIP	100	5%	1/10W
R2064	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R2203	1-216-809-11	METAL CHIP	100	5%	1/10W
R2067	1-216-809-11	METAL CHIP	100	5%	1/10W	R2204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2069	1-216-864-11	SHORT CHIP				R2205	1-216-864-11	SHORT CHIP			
R2071	1-216-864-11	SHORT CHIP				R2206	1-216-864-11	SHORT CHIP			
R2072	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2207	1-216-809-11	METAL CHIP	100	5%	1/10W
R2073	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2208	1-216-809-11	METAL CHIP	100	5%	1/10W
R2074	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2209	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2075	1-216-864-11	SHORT CHIP				R2210	1-216-818-11	METAL CHIP	560	5%	1/10W
R2076	1-216-864-11	SHORT CHIP				R2211	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2077	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2212	1-216-818-11	METAL CHIP	560	5%	1/10W
R2081	1-216-809-11	METAL CHIP	100	5%	1/10W	R2213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2082	1-216-809-11	METAL CHIP	100	5%	1/10W	R2214	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2083	1-216-851-11	METAL CHIP	330K	5%	1/10W	R2215	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2086	1-216-818-11	METAL CHIP	560	5%	1/10W	R2216	1-216-817-11	METAL CHIP	470	5%	1/10W
R2087	1-216-818-11	METAL CHIP	560	5%	1/10W	R2217	1-216-817-11	METAL CHIP	470	5%	1/10W
R2091	1-216-809-11	METAL CHIP	100	5%	1/10W	R2218	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2092	1-216-818-11	METAL CHIP	560	5%	1/10W	R2219	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2093	1-216-818-11	METAL CHIP	560	5%	1/10W	R2220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2094	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R2221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2095	1-216-864-11	SHORT CHIP				R2222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2097	1-216-809-11	METAL CHIP	100	5%	1/10W	R2223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2099	1-216-809-11	METAL CHIP	100	5%	1/10W	R2224	1-216-809-11	METAL CHIP	100	5%	1/10W
R2101	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2225	1-216-818-11	METAL CHIP	560	5%	1/10W
R2103	1-216-809-11	METAL CHIP	100	5%	1/10W	R2226	1-216-817-11	METAL CHIP	470	5%	1/10W
R2105	1-216-809-11	METAL CHIP	100	5%	1/10W	R2227	1-216-816-11	METAL CHIP	390	5%	1/10W
R2107	1-216-809-11	METAL CHIP	100	5%	1/10W	R2228	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2110	1-216-818-11	METAL CHIP	560	5%	1/10W	R2229	1-216-849-11	METAL CHIP	220K	5%	1/10W
R2111	1-216-818-11	METAL CHIP	560	5%	1/10W	R2230	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2112	1-216-809-11	METAL CHIP	100	5%	1/10W	R2231	1-216-819-11	METAL CHIP	680	5%	1/10W
R2113	1-216-809-11	METAL CHIP	100	5%	1/10W	R2232	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2114	1-216-805-11	METAL CHIP	47	5%	1/10W	R2233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2115	1-216-805-11	METAL CHIP	47	5%	1/10W	R2234	1-216-820-11	METAL CHIP	820	5%	1/10W
R2116	1-216-805-11	METAL CHIP	47	5%	1/10W	R2235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2118	1-216-809-11	METAL CHIP	100	5%	1/10W	R2236	1-216-813-11	METAL CHIP	220	5%	1/10W
R2119	1-216-809-11	METAL CHIP	100	5%	1/10W	R2237	1-216-820-11	METAL CHIP	820	5%	1/10W
R2120	1-216-809-11	METAL CHIP	100	5%	1/10W	R2238	1-216-819-11	METAL CHIP	680	5%	1/10W
R2123	1-216-809-11	METAL CHIP	100	5%	1/10W	R2239	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2124	1-216-809-11	METAL CHIP	100	5%	1/10W	R2240	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2125	1-216-809-11	METAL CHIP	100	5%	1/10W	R2241	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2126	1-216-809-11	METAL CHIP	100	5%	1/10W	R2242	1-218-680-11	METAL CHIP	330	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2243	1-216-834-11	METAL CHIP	12K	5%	1/10W	R2324	1-216-809-11	METAL CHIP	100	5%	1/10W
R2244	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2325	1-216-864-11	SHORT CHIP			
R2245	1-218-684-11	METAL CHIP	470	0.50%	1/10W	R2326	1-216-809-11	METAL CHIP	100	5%	1/10W
R2246	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2327	1-216-809-11	METAL CHIP	100	5%	1/10W
R2247	1-216-805-11	METAL CHIP	47	5%	1/10W	R2328	1-216-809-11	METAL CHIP	100	5%	1/10W
R2248	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2329	1-216-815-11	METAL CHIP	330	5%	1/10W
R2249	1-216-805-11	METAL CHIP	47	5%	1/10W	R2330	1-216-817-11	METAL CHIP	470	5%	1/10W
R2250	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2333	1-216-809-11	METAL CHIP	100	5%	1/10W
R2251	1-216-818-11	METAL CHIP	560	5%	1/10W	R2335	1-216-820-11	METAL CHIP	820	5%	1/10W
R2252	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2336	1-216-809-11	METAL CHIP	100	5%	1/10W
R2253	1-216-809-11	METAL CHIP	100	5%	1/10W	R2337	1-216-809-11	METAL CHIP	100	5%	1/10W
R2254	1-216-817-11	METAL CHIP	470	5%	1/10W	R2338	1-216-864-11	SHORT CHIP			
R2255	1-216-817-11	METAL CHIP	470	5%	1/10W	R2339	1-216-809-11	METAL CHIP	100	5%	1/10W
R2256	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2340	1-216-809-11	METAL CHIP	100	5%	1/10W
R2257	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2341	1-216-809-11	METAL CHIP	100	5%	1/10W
R2258	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2259	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2343	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2260	1-216-840-11	METAL CHIP	39K	5%	1/10W	R2344	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2261	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2345	1-216-809-11	METAL CHIP	100	5%	1/10W
R2298	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2346	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R2299	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2300	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2348	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2301	1-216-809-11	METAL CHIP	100	5%	1/10W	R2349	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2302	1-216-809-11	METAL CHIP	100	5%	1/10W	R2350	1-216-809-11	METAL CHIP	100	5%	1/10W
R2303	1-216-809-11	METAL CHIP	100	5%	1/10W	R2351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2304	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2352	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2305	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2353	1-216-809-11	METAL CHIP	100	5%	1/10W
R2306	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2354	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2307	1-216-809-11	METAL CHIP	100	5%	1/10W	R2355	1-216-809-11	METAL CHIP	100	5%	1/10W
R2308	1-216-809-11	METAL CHIP	100	5%	1/10W	R2356	1-216-805-11	METAL CHIP	47	5%	1/10W
R2309	1-216-809-11	METAL CHIP	100	5%	1/10W	R2357	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2311	1-216-809-11	METAL CHIP	100	5%	1/10W	R2358	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2312	1-216-809-11	METAL CHIP	100	5%	1/10W	R2359	1-216-805-11	METAL CHIP	47	5%	1/10W
R2313	1-216-809-11	METAL CHIP	100	5%	1/10W	R2360	1-216-809-11	METAL CHIP	100	5%	1/10W
R2314	1-216-809-11	METAL CHIP	100	5%	1/10W	R2361	1-216-864-11	SHORT CHIP			
R2315	1-216-809-11	METAL CHIP	100	5%	1/10W	R2362	1-216-805-11	METAL CHIP	47	5%	1/10W
R2316	1-216-809-11	METAL CHIP	100	5%	1/10W	R2363	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2317	1-216-809-11	METAL CHIP	100	5%	1/10W	R2364	1-216-809-11	METAL CHIP	100	5%	1/10W
R2318	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2365	1-216-809-11	METAL CHIP	100	5%	1/10W
R2319	1-216-809-11	METAL CHIP	100	5%	1/10W	R2366	1-216-864-11	SHORT CHIP			
R2320	1-216-809-11	METAL CHIP	100	5%	1/10W	R2367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2321	1-216-809-11	METAL CHIP	100	5%	1/10W	R2368	1-216-809-11	METAL CHIP	100	5%	1/10W
R2322	1-216-809-11	METAL CHIP	100	5%	1/10W	R2369	1-216-805-11	METAL CHIP	47	5%	1/10W
R2323	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2370	1-216-833-11	METAL CHIP	10K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2371	1-216-809-11	METAL CHIP	100	5%	1/10W	R2470	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2372	1-216-809-11	METAL CHIP	100	5%	1/10W	R2471	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2373	1-216-809-11	METAL CHIP	100	5%	1/10W	R2472	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2374	1-216-864-11	SHORT CHIP				R2473	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2375	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2474	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2376	1-216-805-11	METAL CHIP	47	5%	1/10W	R2480	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2377	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2481	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2378	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2379	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2484	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2380	1-216-809-11	METAL CHIP	100	5%	1/10W	R2485	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2381	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2486	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2383	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2487	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2384	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2488	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2386	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2489	1-216-817-11	METAL CHIP	470	5%	1/10W
R2387	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2491	1-216-817-11	METAL CHIP	470	5%	1/10W
R2388	1-216-815-11	METAL CHIP	330	5%	1/10W	R2492	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2389	1-216-815-11	METAL CHIP	330	5%	1/10W	R2493	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2400	1-216-811-11	METAL CHIP	150	5%	1/10W	R2494	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2401	1-216-811-11	METAL CHIP	150	5%	1/10W	R2500	1-216-809-11	METAL CHIP	100	5%	1/10W
R2402	1-216-811-11	METAL CHIP	150	5%	1/10W	R2501	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2419	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2502	1-216-864-11	SHORT CHIP			
R2422	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2425	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2506	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2428	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2434	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2435	1-216-820-11	METAL CHIP	820	5%	1/10W	R2510	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2436	1-216-820-11	METAL CHIP	820	5%	1/10W	R2511	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2437	1-216-809-11	METAL CHIP	100	5%	1/10W	R2512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2438	1-216-820-11	METAL CHIP	820	5%	1/10W	R2513	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2440	1-216-864-11	SHORT CHIP				R2514	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2441	1-216-864-11	SHORT CHIP				R2515	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2450	1-216-864-11	SHORT CHIP				R2516	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2452	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2453	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2454	1-216-809-11	METAL CHIP	100	5%	1/10W	R2519	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2455	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2520	1-216-864-11	SHORT CHIP			
R2459	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2521	1-216-864-11	SHORT CHIP			
R2460	1-216-809-11	METAL CHIP	100	5%	1/10W	R2522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2463	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2523	1-216-813-11	METAL CHIP	220	5%	1/10W
R2464	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2524	1-216-809-11	METAL CHIP	100	5%	1/10W
R2466	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2525	1-216-813-11	METAL CHIP	220	5%	1/10W
R2467	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2526	1-216-864-11	SHORT CHIP			
R2469	1-216-809-11	METAL CHIP	100	5%	1/10W	R2528	1-216-809-11	METAL CHIP	100	5%	1/10W
						R2529	1-216-809-11	METAL CHIP	100	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2530	1-216-809-11	METAL CHIP	100	5%	1/10W	R2577	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2531	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2532	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2579	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2533	1-216-864-11	SHORT CHIP				R2580	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2534	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2581	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2535	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2582	1-216-809-11	METAL CHIP	100	5%	1/10W
R2536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2584	1-216-809-11	METAL CHIP	100	5%	1/10W
R2538	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2585	1-216-864-11	SHORT CHIP			
R2539	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2593	1-216-864-11	SHORT CHIP			
R2540	1-216-864-11	SHORT CHIP				R2603	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2541	1-216-864-11	SHORT CHIP				R2604	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2542	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2605	1-216-864-11	SHORT CHIP			
R2543	1-216-864-11	SHORT CHIP				R2607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2546	1-216-813-11	METAL CHIP	220	5%	1/10W	R2608	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2547	1-216-813-11	METAL CHIP	220	5%	1/10W						
R2548	1-216-841-11	METAL CHIP	47K	5%	1/10W			<b>CRYSTAL</b>			
R2549	1-216-813-11	METAL CHIP	220	5%	1/10W	X2001	1-567-505-11	OSCILLATOR, CRYSTAL			
R2550	1-216-821-11	METAL CHIP	1K	5%	1/10W	X2002	1-567-505-11	OSCILLATOR, CRYSTAL			
R2551	1-216-821-11	METAL CHIP	1K	5%	1/10W	X2003	1-781-282-11	VIBRATOR, CERAMIC			
R2552	1-216-809-11	METAL CHIP	100	5%	1/10W	X2200	1-767-606-11	VIBRATOR, CRYSTAL			
R2553	1-216-853-11	METAL CHIP	470K	5%	1/10W	X2300	1-795-572-11	VIBRATOR, CRYSTAL			
R2554	1-216-809-11	METAL CHIP	100	5%	1/10W	X2500	1-767-639-21	VIBRATOR, CRYSTAL			
R2555	1-216-853-11	METAL CHIP	470K	5%	1/10W						
R2556	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R2557	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R2558	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2559	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2560	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2561	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2562	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2563	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2564	1-216-817-11	METAL CHIP	470	5%	1/10W						
R2565	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2566	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2567	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R2568	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2569	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R2570	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2571	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R2572	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2573	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2574	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2575	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R2576	1-216-821-11	METAL CHIP	1K	5%	1/10W						



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**A-1300-321-A U BOARD, COMPLETE****CAPACITOR**

C1501	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
C1502	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C1503	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
C1504	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
C1505	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C1506	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
C1507	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
C1508	1-126-960-11	ELECT	1μF	20%	50V
C1509	1-126-960-11	ELECT	1μF	20%	50V
C1510	1-126-960-11	ELECT	1μF	20%	50V
C1511	1-126-960-11	ELECT	1μF	20%	50V
C1512	1-126-960-11	ELECT	1μF	20%	50V
C1513	1-126-960-11	ELECT	1μF	20%	50V
C1519	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C1520	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES				
C1521	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	*	<u>CONNECTOR</u>						
C1522	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		CN1501	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P			
C1523	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V			CN1502	1-793-173-11	PIN, PC CONNECTOR(PC BOARD)	50P		
C1524	1-109-982-11	CERAMIC CHIP	1μF	10%	10V				CN1503	1-793-419-11	CONNECTOR, BOARD TO BOARD	4P	
C1525	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C1526	1-126-964-11	ELECT	10μF	20%	50V	<u>DIODE</u>							
C1527	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D1501	8-719-977-28			DIODE		DTZ10B	
C1528	1-126-933-11	ELECT	100μF	20%	16V		D1502	8-719-977-28		DIODE		DTZ10B	
C1529	1-109-982-11	CERAMIC CHIP	1μF	10%	10V			D1503	8-719-977-28	DIODE		DTZ10B	
C1530	1-126-964-11	ELECT	10μF	20%	50V				D1504	8-719-977-28	DIODE		DTZ10B
C1531	1-126-941-11	ELECT	470μF	20%	25V					D1505	8-719-977-28	DIODE	
C1532	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D1506					8-719-977-28	DIODE	
C1533	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		D1507				8-719-977-28	DIODE	
C1534	1-126-933-11	ELECT	100μF	20%	16V			D1508			8-719-977-28	DIODE	
C1535	1-126-933-11	ELECT	100μF	20%	16V				D1509		8-719-977-28	DIODE	
C1536	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V					D1510	8-719-977-28	DIODE	
C1537	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D1511					8-719-977-28	DIODE	
C1538	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V		D1512				8-719-977-28	DIODE	
C1539	1-164-156-11	CERAMIC CHIP	0.1μF		25V			D1513			8-719-977-28	DIODE	
C1540	1-126-933-11	ELECT	100μF	20%	16V				D1514		8-719-977-28	DIODE	
C1541	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V					D1515	8-719-977-28	DIODE	
C1542	1-249-405-11	CARBON	100	5%	1/4W	D1516					8-719-977-28	DIODE	
C1544	1-249-405-11	CARBON	100	5%	1/4W		D1517				8-719-977-28	DIODE	
C1545	1-126-933-11	ELECT	100μF	20%	16V			D1518			8-719-914-43	DIODE	
C1546	1-164-156-11	CERAMIC CHIP	0.1μF		25V				D1519		8-719-977-28	DIODE	
C1548	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V					D1520	8-719-977-28	DIODE	
C1550	1-126-960-11	ELECT	1μF	20%	50V	D1521					8-719-977-28	DIODE	
C1551	1-126-960-11	ELECT	1μF	20%	50V		D1522				8-719-977-28	DIODE	
C1552	1-126-960-11	ELECT	1μF	20%	50V			D1523			8-719-977-28	DIODE	
C1553	1-126-960-11	ELECT	1μF	20%	50V				D1524		8-719-977-28	DIODE	
C1554	1-126-960-11	ELECT	1μF	20%	50V					D1525	8-719-977-28	DIODE	
C1555	1-126-960-11	ELECT	1μF	20%	50V	D1526					8-719-977-28	DIODE	
C1556	1-126-933-11	ELECT	100μF	20%	16V		D1527				8-719-977-28	DIODE	
C1557	1-164-156-11	CERAMIC CHIP	0.1μF		25V			D1528			8-719-977-28	DIODE	
C1558	1-126-933-11	ELECT	100μF	20%	16V				D1529		8-719-977-28	DIODE	
C1559	1-126-933-11	ELECT	100μF	20%	16V					D1530	8-719-977-28	DIODE	
C1560	1-126-933-11	ELECT	100μF	20%	16V	D1531					8-719-977-28	DIODE	
C1561	1-126-933-11	ELECT	100μF	20%	16V		D1532				8-719-977-28	DIODE	
C1562	1-126-933-11	ELECT	100μF	20%	16V			D1533			8-719-977-28	DIODE	
C1563	1-126-933-11	ELECT	100μF	20%	16V				D1534		8-719-977-28	DIODE	
										D1535	8-719-977-28	DIODE	




REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<b><u>IC</u></b>				<b><u>RESISTOR</u></b>			
IC1502	8-752-080-04	IC	CXA2069Q	Q1522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
IC1505	8-759-548-56	IC	M52055FP	Q1523	8-729-422-27	TRANSISTOR	2SD601A-Q
<b><u>JACK</u></b>				Q1524	8-729-422-27	TRANSISTOR	2SD601A-Q
J1501	1-573-967-12	BLOCK, (S) TERMINAL		R1501	1-216-853-11	METAL CHIP	470K 5% 1/10W
J1502	1-750-516-21	JACK BLOCK, PIN	2P	R1502	1-216-853-11	METAL CHIP	470K 5% 1/10W
J1503	1-750-517-21	JACK BLOCK, PIN	3P	R1503	1-218-665-11	METAL CHIP	75 0.50% 1/10W
J1504	1-750-517-21	JACK BLOCK, PIN	3P	R1504	1-218-665-11	METAL CHIP	75 0.50% 1/10W
J1505	1-764-143-11	JACK		R1505	1-218-665-11	METAL CHIP	75 0.50% 1/10W
J1506	1-764-143-11	JACK		R1506	1-216-853-11	METAL CHIP	470K 5% 1/10W
J1507	1-750-516-21	JACK BLOCK, PIN	2P	R1507	1-216-853-11	METAL CHIP	470K 5% 1/10W
J1508	1-815-015-11	JACK BLOCK, PIN		R1508	1-218-665-11	METAL CHIP	75 0.50% 1/10W
J1509	1-815-015-11	JACK BLOCK, PIN		R1509	1-218-665-11	METAL CHIP	75 0.50% 1/10W
J1510	1-815-015-11	JACK BLOCK, PIN		R1510	1-218-665-11	METAL CHIP	75 0.50% 1/10W
<b><u>COIL</u></b>				R1511	1-216-853-11	METAL CHIP	470K 5% 1/10W
L1502	1-469-555-21	INDUCTOR	10μH	R1512	1-216-853-11	METAL CHIP	470K 5% 1/10W
L1503	1-469-555-21	INDUCTOR	10μH	R1513	1-218-665-11	METAL CHIP	75 0.50% 1/10W
L1504	1-469-555-21	INDUCTOR	10μH	R1514	1-216-821-11	METAL CHIP	1K 5% 1/10W
L1505	1-469-555-21	INDUCTOR	10μH	R1520	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
L1506	1-469-555-21	INDUCTOR	10μH	R1521	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
<b><u>TRANSISTOR</u></b>				R1522	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
Q1501	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1523	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
Q1502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1524	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1525	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1526	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q1505	8-729-422-27	TRANSISTOR	2SD601A-Q	R1527	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q1506	8-729-422-27	TRANSISTOR	2SD601A-Q	R1530	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1507	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1531	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1508	8-729-422-27	TRANSISTOR	2SD601A-Q	R1532	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1509	8-729-422-27	TRANSISTOR	2SD601A-Q	R1533	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q1510	8-729-422-27	TRANSISTOR	2SD601A-Q	R1534	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q1511	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1535	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q1512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1536	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q1513	8-729-422-27	TRANSISTOR	2SD601A-Q	R1537	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q1515	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1538	1-216-806-11	METAL CHIP	56 5% 1/10W
Q1516	8-729-422-27	TRANSISTOR	2SD601A-Q	R1539	1-216-805-11	METAL CHIP	47 5% 1/10W
Q1518	8-729-422-27	TRANSISTOR	2SD601A-Q	R1540	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1519	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R1541	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1520	8-729-422-27	TRANSISTOR	2SD601A-Q	R1542	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
Q1521	8-729-422-27	TRANSISTOR	2SD601A-Q	R1543	1-216-809-11	METAL CHIP	100 5% 1/10W
				R1544	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
				R1545	1-216-830-11	METAL CHIP	5.6K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1546	1-216-809-11	METAL CHIP	100	5%	1/10W	R1593	1-216-809-11	METAL CHIP	100	5%	1/10W
R1547	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1594	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1548	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1595	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1549	1-216-809-11	METAL CHIP	100	5%	1/10W	R1596	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1550	1-216-809-11	METAL CHIP	100	5%	1/10W	R1597	1-216-809-11	METAL CHIP	100	5%	1/10W
R1551	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1598	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1552	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1600	1-216-809-11	METAL CHIP	100	5%	1/10W
R1554	1-216-809-11	METAL CHIP	100	5%	1/10W	R1604	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1555	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1607	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1556	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1608	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1557	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1558	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1610	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1559	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R1612	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1560	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1613	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1562	1-216-809-11	METAL CHIP	100	5%	1/10W	R1615	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1563	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1565	1-216-809-11	METAL CHIP	100	5%	1/10W	R1617	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1566	1-216-809-11	METAL CHIP	100	5%	1/10W	R1618	1-216-864-11	SHORT CHIP			
R1567	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1619	1-216-809-11	METAL CHIP	100	5%	1/10W
R1568	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1620	1-216-809-11	METAL CHIP	100	5%	1/10W
R1569	1-216-809-11	METAL CHIP	100	5%	1/10W	R1621	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1570	1-216-809-11	METAL CHIP	100	5%	1/10W	R1622	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1571	1-216-809-11	METAL CHIP	100	5%	1/10W	R1623	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1572	1-216-809-11	METAL CHIP	100	5%	1/10W	R1624	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1573	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1625	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1574	1-216-809-11	METAL CHIP	100	5%	1/10W	R1626	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1575	1-216-809-11	METAL CHIP	100	5%	1/10W	R1627	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1576	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1628	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1577	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1629	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1578	1-216-857-11	METAL CHIP	1M	5%	1/10W	R1630	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1579	1-216-842-11	METAL CHIP	56K	5%	1/10W	R1631	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1580	1-216-809-11	METAL CHIP	100	5%	1/10W	R1632	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1581	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1635	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1582	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R1636	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1583	1-216-809-11	METAL CHIP	100	5%	1/10W	R1637	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1645	1-216-809-11	METAL CHIP	100	5%	1/10W
R1585	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1646	1-216-803-11	METAL CHIP	33	5%	1/10W
R1586	1-216-813-11	METAL CHIP	220	5%	1/10W	R1647	1-216-803-11	METAL CHIP	33	5%	1/10W
R1587	1-216-809-11	METAL CHIP	100	5%	1/10W	R1648	1-216-803-11	METAL CHIP	33	5%	1/10W
R1588	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1649	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1589	1-216-813-11	METAL CHIP	220	5%	1/10W	R1650	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1590	1-216-809-11	METAL CHIP	100	5%	1/10W	R1651	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1591	1-216-813-11	METAL CHIP	220	5%	1/10W	R1652	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1592	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1653	1-218-676-11	METAL CHIP	220	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES								
R1654	1-218-676-11	METAL CHIP	220	0.50%	1/10W	D7204	8-719-800-76	DIODE	1SS226								
R1655	1-218-676-11	METAL CHIP	220	0.50%	1/10W	D7205	8-719-800-76	DIODE	1SS226								
R1656	1-218-676-11	METAL CHIP	220	0.50%	1/10W	D7206	8-719-800-76	DIODE	1SS226								
R1657	1-218-676-11	METAL CHIP	220	0.50%	1/10W	D7207	8-719-800-76	DIODE	1SS226								
R1658	1-218-676-11	METAL CHIP	220	0.50%	1/10W	D7208	8-719-800-76	DIODE	1SS226								
						D7209	6-500-182-01	DIODE	L1503CB/ID								
R1659	1-218-676-11	METAL CHIP	220	0.50%	1/10W	D7210	8-719-083-58	DIODE	UDZSTE-173.9B								
R1660	1-218-676-11	METAL CHIP	220	0.50%	1/10W	D7211	8-719-083-58	DIODE	UDZSTE-173.9B								
<u>VARISTOR</u>						D7212	8-719-800-76	DIODE	1SS226								
VD1512	1-803-974-21	VARISTOR, CHIP	(1608)									D7213	8-719-800-76	DIODE	1SS226		
VD1513	1-803-974-21	VARISTOR, CHIP	(1608)									D7214	8-719-800-76	DIODE	1SS226		
VD1516	1-803-974-21	VARISTOR, CHIP	(1608)									D7215	8-719-800-76	DIODE	1SS226		
						D7216	8-719-800-76	DIODE	1SS226								
						D7217	8-719-800-76	DIODE	1SS226								
						<u>FERRITE BEAD</u>											
						FB7201	1-414-921-11	FERRITE	0μH								
						FB7202	1-414-921-11	FERRITE	0μH								
						FB7203	1-414-921-11	FERRITE	0μH								
						FB7204	1-414-921-11	FERRITE	0μH								
<u>CAPACITOR</u>						<u>IC</u>											
C7205	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7201	8-759-639-86	IC	SN65LVDS32DR								
C7206	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	IC7202	6-701-763-11	IC	DS90LV017ATMX								
C7208	1-124-779-00	ELECT CHIP	10μF	20%	16V	IC7203	8-759-698-08	IC	SN74CBTLV1G125DCKR								
C7209	1-164-156-11	CERAMIC CHIP	0.1μF		25V												
C7210	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V												
						<u>COIL</u>											
C7212	1-164-156-11	CERAMIC CHIP	0.1μF		25V	L7201	1-419-370-21	INDUCTOR	0μH								
C7213	1-124-778-00	ELECT CHIP	22μF	20%	6.3V	L7202	1-419-370-21	INDUCTOR	0μH								
C7214	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	L7203	1-419-370-21	INDUCTOR	0μH								
C7215	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	L7204	1-419-370-21	INDUCTOR	0μH								
C7216	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	L7205	1-419-370-21	INDUCTOR	0μH								
						<u>TRANSISTOR</u>											
C7217	1-124-778-00	ELECT CHIP	22μF	20%	6.3V	Q7201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX								
C7219	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	Q7202	8-729-422-27	TRANSISTOR	2SD601A-Q								
C7220	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	Q7203	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX								
<u>CONNECTOR</u>						<u>RESISTOR</u>											
CN7201	1-816-402-12	CONNECTOR, MEMORY STICK				R7201	1-216-801-11	METAL CHIP	22	5%	1/10W						
CN7202	1-816-124-11	PIN, CONNECTOR (FOR PWB)	18P									R7202	1-216-801-11	METAL CHIP	22	5%	1/10W
CN7205	1-695-915-11	TAB (CONTACT)				R7204	1-216-801-11	METAL CHIP	22	5%	1/10W						
<u>DIODE</u>																	
D7201	8-719-800-76	DIODE	1SS226														
D7202	8-719-800-76	DIODE	1SS226														
D7203	8-719-800-76	DIODE	1SS226														

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.

Data is provided for reference only.

A-1300-323-A HM BOARD, COMPLETE



Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.  
Data is provided for reference only.

\* A-1300-323-A HM BOARD, COMPLETE

#### **CAPACITOR**

C7205	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7206	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V
C7208	1-124-779-00	ELECT CHIP	10μF	20% 16V
C7209	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7210	1-162-970-11	CERAMIC CHIP	0.01μF	10% 25V
C7212	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7213	1-124-778-00	ELECT CHIP	22μF	20% 6.3V
C7214	1-107-826-11	CERAMIC CHIP	0.1μF	10% 16V
C7215	1-107-826-11	CERAMIC CHIP	0.1μF	10% 16V
C7216	1-107-826-11	CERAMIC CHIP	0.1μF	10% 16V
C7217	1-124-778-00	ELECT CHIP	22μF	20% 6.3V
C7219	1-162-970-11	CERAMIC CHIP	0.01μF	10% 25V
C7220	1-162-970-11	CERAMIC CHIP	0.01μF	10% 25V

#### **CONNECTOR**

*	CN7201	1-816-402-12	CONNECTOR, MEMORY STICK	
*	CN7202	1-816-124-11	PIN, CONNECTOR (FOR PWB)	18P
	CN7205	1-695-915-11	TAB (CONTACT)	

#### **DIODE**

D7201	8-719-800-76	DIODE	1SS226		
D7202	8-719-800-76	DIODE	1SS226		
D7203	8-719-800-76	DIODE	1SS226		

UD

**Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.**  
**Data is provided for reference only.**

\* A-1300-324-A UD BOARD, COMPLETE

## CAPACITOR



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C7070	1-164-156-11	CERAMIC CHIP	0.1μF 25V	<b>COIL</b>			
C7071	1-164-156-11	CERAMIC CHIP	0.1μF 25V	L7001	1-412-058-11	INDUCTOR	10μH
C7078	1-164-156-11	CERAMIC CHIP	0.1μF 25V	L7002	1-412-058-11	INDUCTOR	10μH
C7079	1-164-156-11	CERAMIC CHIP	0.1μF 25V	<b>RESISTOR</b>			
C7080	1-164-156-11	CERAMIC CHIP	0.1μF 25V	R7003	1-216-821-11	METAL CHIP	1K 5% 1/10W
<b>CONNECTOR</b>				R7004	1-218-852-11	METAL CHIP	1.6K 0.50% 1/10W
* CN7001	1-816-228-21	CONNECTOR, DVI		R7007	1-216-821-11	METAL CHIP	1K 5% 1/10W
* CN7002	1-564-526-11	PLUG, CONNECTOR	11P	R7012	1-216-821-11	METAL CHIP	1K 5% 1/10W
* CN7004	1-564-519-11	PLUG, CONNECTOR	4P	R7013	1-216-821-11	METAL CHIP	1K 5% 1/10W
<b>DIODE</b>				R7014	1-216-821-11	METAL CHIP	1K 5% 1/10W
D7001	8-719-914-43	DIODE	DAN202K	R7015	1-216-833-11	METAL CHIP	10K 5% 1/10W
D7002	8-719-069-55	DIODE	UDZSTE-175.6B	R7016	1-216-833-11	METAL CHIP	10K 5% 1/10W
D7003	8-719-069-55	DIODE	UDZSTE-175.6B	R7020	1-216-833-11	METAL CHIP	10K 5% 1/10W
D7004	8-719-069-55	DIODE	UDZSTE-175.6B	R7021	1-216-833-11	METAL CHIP	10K 5% 1/10W
D7006	8-719-069-55	DIODE	UDZSTE-175.6B	R7023	1-216-833-11	METAL CHIP	10K 5% 1/10W
<b>FERRITE BEAD</b>				R7024	1-216-833-11	METAL CHIP	10K 5% 1/10W
FB7001	1-414-760-21	FERRITE	0μH	R7025	1-216-833-11	METAL CHIP	10K 5% 1/10W
FB7002	1-414-760-21	FERRITE	0μH	R7026	1-216-833-11	METAL CHIP	10K 5% 1/10W
FB7003	1-414-760-21	FERRITE	0μH	R7029	1-218-692-11	METAL CHIP	1K 0.50% 1/10W
FB7004	1-414-760-21	FERRITE	0μH	R7030	1-216-864-11	SHORT CHIP	
<b>FILTER</b>				R7032	1-218-676-11	METAL CHIP	220 0.50% 1/10W
FL7001	1-400-087-21	FILTER, EMI REMOVAL (SMD)		R7034	1-218-676-11	METAL CHIP	220 0.50% 1/10W
FL7002	1-234-560-21	FILTER, LOW PASS		R7036	1-218-704-11	METAL CHIP	3.3K 0.50% 1/10W
FL7003	1-234-559-21	FILTER, LOW PASS		R7037	1-218-676-11	METAL CHIP	220 0.50% 1/10W
FL7004	1-234-559-21	FILTER, LOW PASS		R7041	1-216-833-11	METAL CHIP	10K 5% 1/10W
<b>IC</b>				R7043	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
IC7001	8-759-640-39	IC	BR24C02F-WE2	R7044	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
IC7002	8-749-015-18	IC	PQ07VZ012ZP	R7045	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC7003	8-749-015-18	IC	PQ07VZ012ZP	R7047	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC7004	6-702-080-01	IC	GM7030-H	R7051	1-216-864-11	SHORT CHIP	
IC7005	6-802-346-01	IC	ST72631K4M1/NNLTR	R7053	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC7006	8-759-641-86	IC	BR24C16F-E2	R7054	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC7007	6-702-170-01	IC	PACDN006S	R7056	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC7008	6-702-170-01	IC	PACDN006S	R7057	1-216-864-11	SHORT CHIP	
IC7009	6-702-170-01	IC	PACDN006S	R7058	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R7059	1-216-864-11	SHORT CHIP	
				R7060	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R7061	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R7062	1-216-864-11	SHORT CHIP	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
R7065	1-216-833-11	METAL CHIP	10K	5%	1/10W	<div>B</div> <p>Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.</p>						
R7066	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W							
R7067	1-216-833-11	METAL CHIP	10K	5%	1/10W							
R7068	1-216-801-11	METAL CHIP	22	5%	1/10W							
R7069	1-216-801-11	METAL CHIP	22	5%	1/10W							
R7071	1-216-803-11	METAL CHIP	33	5%	1/10W							
R7072	1-216-803-11	METAL CHIP	33	5%	1/10W							
R7075	1-218-676-11	METAL CHIP	220	0.50%	1/10W							
R7080	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W							
R7087	1-218-680-11	METAL CHIP	330	0.50%	1/10W							
R7096	1-216-833-11	METAL CHIP	10K	5%	1/10W							
R7097	1-216-809-11	METAL CHIP	100	5%	1/10W							
R7098	1-216-809-11	METAL CHIP	100	5%	1/10W							
R7099	1-216-809-11	METAL CHIP	100	5%	1/10W							
R7101	1-216-864-11	SHORT CHIP										
R7106	1-216-833-11	METAL CHIP	10K	5%	1/10W							
R7108	1-216-805-11	METAL CHIP	47	5%	1/10W							
R7109	1-216-805-11	METAL CHIP	47	5%	1/10W							
R7111	1-216-864-11	SHORT CHIP										
R7112	1-216-864-11	SHORT CHIP										
R7113	1-216-864-11	SHORT CHIP										
R7114	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W							
R7115	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W							
R7116	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W							
R7117	1-218-668-11	METAL CHIP	100	0.50%	1/10W							
R7119	1-218-668-11	METAL CHIP	100	0.50%	1/10W							
R7121	1-216-864-11	SHORT CHIP										
R7123	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W							
R7124	1-218-680-11	METAL CHIP	330	0.50%	1/10W							
R7125	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W							
R7126	1-216-864-11	SHORT CHIP										



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2840	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3038	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2841	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3040	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2842	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3042	1-100-202-21	ELECT CHIP	330μF	20%	6.3V
C2843	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3044	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2844	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3046	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2845	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3047	1-126-204-11	ELECT CHIP	47μF	20%	16V
C2846	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3048	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2847	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V	C3049	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2849	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C3089	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2850	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3090	1-126-204-11	ELECT CHIP	47μF	20%	16V
C2851	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3095	1-128-359-11	ELECT CHIP	100μF	20%	10V
C3001	1-128-453-21	ELECT CHIP	47μF	20%	6.3V	C3096	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3002	1-128-453-21	ELECT CHIP	47μF	20%	6.3V	C3097	1-128-359-11	ELECT CHIP	100μF	20%	10V
C3003	1-128-453-21	ELECT CHIP	47μF	20%	6.3V	C3098	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3005	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3101	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3006	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3102	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3008	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3103	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3009	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3301	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3011	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3302	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3012	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3303	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3013	1-128-391-11	ELECT CHIP	330μF	20%	6.3V	C3304	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3014	1-128-391-11	ELECT CHIP	330μF	20%	6.3V	C3305	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3015	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3307	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3308	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3017	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3309	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3018	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3313	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3314	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3020	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3315	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3021	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3316	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3023	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3317	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3024	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3318	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3025	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3319	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3325	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3326	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3028	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3329	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3029	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3333	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3030	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3334	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3031	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3335	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3032	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3337	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3033	1-109-982-11	CERAMIC CHIP	1μF	10%	10V	C3341	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3034	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3343	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3035	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3349	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3036	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3350	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3037	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3351	1-164-156-11	CERAMIC CHIP	0.1μF		25V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3357	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3425	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3358	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3426	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3359	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3428	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3360	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3429	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3363	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3430	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3364	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3431	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3365	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3432	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3366	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3433	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3367	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3434	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3368	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3435	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3369	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3436	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3370	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3437	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3371	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3438	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3372	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3439	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3374	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3375	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V	C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3376	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3442	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3377	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3443	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3378	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3444	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3379	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3445	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3401	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3446	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3402	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3447	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3403	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3448	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3404	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	C3449	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3405	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	C3450	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3406	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3452	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3407	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3453	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3408	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	C3454	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3409	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3455	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3410	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3456	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3411	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3457	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3412	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3458	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C3414	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3462	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3415	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3463	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3416	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3464	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3465	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3418	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3466	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3419	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3467	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3420	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3468	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3421	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3469	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3422	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3470	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3423	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3473	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3424	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3474	1-124-779-00	ELECT CHIP	10μF	20%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3475	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3624	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3476	1-126-394-11	ELECT CHIP	10μF	20%	16V	C3625	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C3477	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3626	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3478	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3627	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3479	1-126-394-11	ELECT CHIP	10μF	20%	16V	C3628	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3480	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3629	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3481	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3630	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3482	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3906	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3483	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3912	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3484	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V						
C3485	1-164-156-11	CERAMIC CHIP	0.1μF		25V			<b>CONNECTOR</b>			
C3486	1-164-156-11	CERAMIC CHIP	0.1μF		25V	* CN2803	1-564-508-11	PLUG, CONNECTOR			5P
C3487	1-164-156-11	CERAMIC CHIP	0.1μF		25V	* CN2805	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)			11P
C3488	1-126-394-11	ELECT CHIP	10μF	20%	16V	* CN3601	1-816-070-21	CONNECTOR, BOARD TO BOARD			60P
C3489	1-164-156-11	CERAMIC CHIP	0.1μF		25V	* CN3603	1-815-177-12	PIN, CONNECTOR(WITH SHIELD)			22P
C3490	1-124-779-00	ELECT CHIP	10μF	20%	16V			<b>DIODE</b>			
C3491	1-126-396-11	ELECT CHIP	47μF	20%	16V	D2803	8-719-404-50	DIODE			MA111-TX
C3492	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D2806	8-719-069-55	DIODE			UDZSTE-175.6B
C3493	1-126-396-11	ELECT CHIP	47μF	20%	16V	D3001	8-719-404-50	DIODE			MA111-TX
C3494	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3002	8-719-083-58	DIODE			UDZSTE-173.9B
C3495	1-124-779-00	ELECT CHIP	10μF	20%	16V	D3089	8-719-800-76	DIODE			1SS226
C3496	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3090	8-719-800-76	DIODE			1SS226
C3499	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	D3401	8-719-914-43	DIODE			DAN202K
C3500	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	D3402	8-719-914-44	DIODE			DAP202K
C3501	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3403	8-719-978-33	DIODE			DTZ-TT11-6.8B
C3601	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3404	8-719-404-50	DIODE			MA111-TX
C3602	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3601	8-719-800-76	DIODE			1SS226
C3604	1-126-394-11	ELECT CHIP	10μF	20%	16V	D3603	8-719-083-58	DIODE			UDZSTE-173.9B
C3605	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V			<b>FERRITE BEAD</b>			
C3606	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB3001	1-500-451-11	FERRITE			0μH
C3607	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB3002	1-216-864-11	SHORT CHIP			
C3608	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB3303	1-216-809-11	METAL CHIP	100	5%	1/10W
C3610	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB3304	1-469-110-21	FERRITE			0μH
C3611	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB3401	1-414-235-22	FERRITE			0μH
C3612	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB3402	1-414-235-22	FERRITE			0μH
C3613	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	FB3403	1-216-864-11	SHORT CHIP			
C3614	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB3601	1-414-228-11	FERRITE			0μH
C3615	1-126-394-11	ELECT CHIP	10μF	20%	16V	FB3602	1-414-228-11	FERRITE			0μH
C3617	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB3608	1-469-568-21	FERRITE			0μH
C3618	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V						
C3619	1-126-392-11	ELECT CHIP	100μF	20%	6.3V						
C3620	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						
C3622	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C3623	1-164-156-11	CERAMIC CHIP	0.1μF		25V						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
FB3609	1-414-921-11	FERRITE	0μH	IC3602	8-759-592-49	IC	TC7SZ125FU(TE85R)
FB3610	1-414-921-11	FERRITE	0μH	IC3603	8-759-639-85	IC	SN65LVDS31DR
FB3611	1-414-921-11	FERRITE	0μH	IC3604	6-701-762-11	IC	DS90LV018ATMX
FB3612	1-414-921-11	FERRITE	0μH	IC3605	8-759-698-08	IC	SN74CBTLV1G125DCKR
FB3623	1-414-228-11	FERRITE	0μH	IC3607	8-759-592-49	IC	TC7SZ125FU(TE85R)
FB3624	1-216-864-11	SHORT CHIP		IC3608	8-759-669-75	IC	TLC2932IPWR
				IC3609	8-759-828-44	IC	NJM2870F33(TE2)
		<b><u>FILTER</u></b>				<b><u>COIL</u></b>	
FL3001	1-234-177-21	FERRITE	0μH	L2801	1-469-555-21	INDUCTOR	10μH
FL3002	1-234-177-21	FERRITE	0μH	L2803	1-469-555-21	INDUCTOR	10μH
FL3003	1-781-924-21	FILTER, LOW PASS (SMD)		L2804	1-469-555-21	INDUCTOR	10μH
FL3301	1-234-558-21	FILTER, LOW PASS		L2805	1-469-555-21	INDUCTOR	10μH
FL3302	1-234-557-21	FILTER, LOW PASS		L2806	1-469-555-21	INDUCTOR	10μH
FL3303	1-234-557-21	FILTER, LOW PASS		L2807	1-469-555-21	INDUCTOR	10μH
FL3401	1-781-923-21	FILTER, LOW PASS (SMD)		L2811	1-469-555-21	INDUCTOR	10μH
		<b><u>IC</u></b>		L3001	1-216-295-91	SHORT CHIP	
IC2801	8-752-102-68	IC	CXA2170Q	L3004	1-412-026-11	INDUCTOR	1μH
IC3002	8-759-583-47	IC	UPC2933T-E2	L3005	1-412-026-11	INDUCTOR	1μH
IC3003	6-701-892-01	IC	TC90A90F(BH,DRY)	L3007	1-469-555-21	INDUCTOR	10μH
IC3004	8-759-642-22	IC	UPC29M05T-E2	L3009	1-469-555-21	INDUCTOR	10μH
IC3089	6-704-573-01	IC	M24C32-WMN6T(B)	L3010	1-469-555-21	INDUCTOR	10μH
IC3090	6-801-376-01	IC	MB94918RpF-G-147-BND	L3011	1-469-555-21	INDUCTOR	10μH
IC3091	8-759-352-91	IC	PST9143NL	L3089	1-414-233-22	FERRITE	0μH
IC3301	8-759-663-74	IC	HY57V161610DTC-7TR	L3102	1-469-552-21	INDUCTOR	3.3μH
IC3302	6-700-398-01	IC	UPC2918T-E1	L3304	1-469-555-21	INDUCTOR	10μH
IC3303	8-752-409-78	IC	CXD2095AQ	L3310	1-469-561-21	INDUCTOR	100μH
IC3306	8-759-669-78	IC	TLC2933IPWR-12	L3311	1-469-561-21	INDUCTOR	100μH
IC3401	6-700-399-01	IC	UPC2925T-E1	L3402	1-412-052-21	INDUCTOR	1μH
IC3402	8-759-677-37	IC	MT48LC2M32B2TG-7	L3403	1-469-561-21	INDUCTOR	100μH
IC3403	8-759-460-29	IC	PST9120NL	L3404	1-469-561-21	INDUCTOR	100μH
IC3404	8-759-669-75	IC	TLC2932IPWR	L3405	1-469-555-21	INDUCTOR	10μH
IC3405	8-759-485-79	IC	TC7SET08FU(TE85L)	L3406	1-469-555-21	INDUCTOR	10μH
IC3406	8-759-485-79	IC	TC7SET08FU(TE85L)	L3407	1-469-555-21	INDUCTOR	10μH
IC3407	8-759-485-79	IC	TC7SET08FU(TE85L)	L3409	1-469-555-21	INDUCTOR	10μH
IC3408	8-759-672-57	IC	CXD9509AQ	L3411	1-412-058-11	INDUCTOR	10μH
IC3409	8-759-833-72	IC	NJM2870F25-TE2	L3412	1-469-555-21	INDUCTOR	10μH
IC3410	8-752-409-20	IC	CXD2309AQ	L3413	1-469-555-21	INDUCTOR	10μH
IC3411	8-759-082-57	IC	TC7W04FU	L3414	1-469-555-21	INDUCTOR	10μH
IC3413	8-759-549-07	IC	SN74LV157APWR	L3416	1-469-555-21	INDUCTOR	10μH
IC3414	8-759-548-56	IC	M52055FP	L3418	1-469-555-21	INDUCTOR	10μH
IC3601	8-759-592-50	IC	TC7SZ126FU(TE85R)	L3601	1-419-370-21	INDUCTOR	0μH
				L3602	1-419-370-21	INDUCTOR	0μH



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
L3603	1-419-370-21	INDUCTOR	0μH	Q3403	8-729-422-27	TRANSISTOR	2SD601A-Q
L3604	1-419-370-21	INDUCTOR	0μH	Q3404	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
L3605	1-419-370-21	INDUCTOR	0μH	Q3405	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L3903	1-412-052-21	INDUCTOR	1μH	Q3406	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
				Q3407	8-729-422-27	TRANSISTOR	2SD601A-Q
	<b>TRANSISTOR</b>			Q3408	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2801	8-729-122-63	TRANSISTOR	2SA1226-E4	Q3409	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2802	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q3410	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2803	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q3411	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2804	8-729-422-27	TRANSISTOR	2SD601A-Q	Q3412	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2805	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q3413	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2806	8-729-422-27	TRANSISTOR	2SD601A-Q	Q3414	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2807	8-729-422-27	TRANSISTOR	2SD601A-Q	Q3415	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2811	8-729-122-63	TRANSISTOR	2SA1226-E4	Q3416	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2812	8-729-122-63	TRANSISTOR	2SA1226-E4	Q3601	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2813	8-729-122-63	TRANSISTOR	2SA1226-E4				
Q2818	8-729-422-27	TRANSISTOR	2SD601A-Q		<b>RESISTOR</b>		
Q2819	8-729-422-27	TRANSISTOR	2SD601A-Q	R2801	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W
Q2820	8-729-422-27	TRANSISTOR	2SD601A-Q	R2803	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q2821	8-729-422-27	TRANSISTOR	2SD601A-Q	R2804	1-216-805-11	METAL CHIP	47 5% 1/10W
Q2822	8-729-422-27	TRANSISTOR	2SD601A-Q	R2805	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
Q2823	8-729-422-27	TRANSISTOR	2SD601A-Q	R2806	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
Q3003	8-729-422-27	TRANSISTOR	2SD601A-Q	R2807	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3005	8-729-422-27	TRANSISTOR	2SD601A-Q	R2808	1-216-834-11	METAL CHIP	12K 5% 1/10W
Q3006	8-729-422-27	TRANSISTOR	2SD601A-Q	R2809	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q3007	8-729-422-27	TRANSISTOR	2SD601A-Q	R2810	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q3008	8-729-422-27	TRANSISTOR	2SD601A-Q	R2811	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3009	8-729-422-27	TRANSISTOR	2SD601A-Q	R2812	1-218-708-11	METAL CHIP	4.7K 0.50% 1/10W
Q3089	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2813	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q3090	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2815	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q3092	8-729-422-27	TRANSISTOR	2SD601A-Q	R2816	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q3093	8-729-422-27	TRANSISTOR	2SD601A-Q	R2817	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3302	8-729-422-27	TRANSISTOR	2SD601A-Q	R2818	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3303	8-729-422-27	TRANSISTOR	2SD601A-Q	R2819	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3305	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2820	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3306	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2821	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3307	8-729-422-27	TRANSISTOR	2SD601A-Q	R2823	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q3308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2824	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3309	8-729-422-27	TRANSISTOR	2SD601A-Q	R2825	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q3310	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R2826	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
Q3311	8-729-422-27	TRANSISTOR	2SD601A-Q	R2827	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q3401	8-729-422-27	TRANSISTOR	2SD601A-Q	R2828	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
Q3402	8-729-028-28	TRANSISTOR	2SK2036(TE85L)				



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2830	1-216-818-11	METAL CHIP	560	5%	1/10W	R2893	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2832	1-216-809-11	METAL CHIP	100	5%	1/10W	R2895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2833	1-216-809-11	METAL CHIP	100	5%	1/10W	R2896	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2834	1-216-809-11	METAL CHIP	100	5%	1/10W	R2897	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2835	1-216-809-11	METAL CHIP	100	5%	1/10W	R2898	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2836	1-216-809-11	METAL CHIP	100	5%	1/10W	R2899	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2837	1-216-809-11	METAL CHIP	100	5%	1/10W	R2900	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2838	1-216-809-11	METAL CHIP	100	5%	1/10W	R2901	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2839	1-216-809-11	METAL CHIP	100	5%	1/10W	R2902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2840	1-216-809-11	METAL CHIP	100	5%	1/10W	R2907	1-216-807-11	METAL CHIP	68	5%	1/10W
R2841	1-216-809-11	METAL CHIP	100	5%	1/10W	R2908	1-216-807-11	METAL CHIP	68	5%	1/10W
R2842	1-216-809-11	METAL CHIP	100	5%	1/10W	R2909	1-216-807-11	METAL CHIP	68	5%	1/10W
R2843	1-216-809-11	METAL CHIP	100	5%	1/10W	R2911	1-216-864-11	SHORT CHIP			
R2844	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R2913	1-216-864-11	SHORT CHIP			
R2845	1-216-809-11	METAL CHIP	100	5%	1/10W	R2919	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2846	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R2920	1-216-864-11	SHORT CHIP			
R2847	1-216-809-11	METAL CHIP	100	5%	1/10W	R2921	1-216-864-11	SHORT CHIP			
R2848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2922	1-216-864-11	SHORT CHIP			
R2849	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3002	1-216-864-11	SHORT CHIP			
R2850	1-216-809-11	METAL CHIP	100	5%	1/10W	R3004	1-216-864-11	SHORT CHIP			
R2851	1-216-815-11	METAL CHIP	330	5%	1/10W	R3013	1-216-809-11	METAL CHIP	100	5%	1/10W
R2854	1-216-864-11	SHORT CHIP				R3014	1-216-809-11	METAL CHIP	100	5%	1/10W
R2858	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R3015	1-216-809-11	METAL CHIP	100	5%	1/10W
R2860	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3017	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2861	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3020	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2862	1-216-809-11	METAL CHIP	100	5%	1/10W	R3021	1-216-809-11	METAL CHIP	100	5%	1/10W
R2865	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3022	1-216-809-11	METAL CHIP	100	5%	1/10W
R2866	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2867	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2868	1-216-809-11	METAL CHIP	100	5%	1/10W	R3026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2869	1-216-809-11	METAL CHIP	100	5%	1/10W	R3029	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2870	1-216-809-11	METAL CHIP	100	5%	1/10W	R3030	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2880	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R3031	1-216-809-11	METAL CHIP	100	5%	1/10W
R2881	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R3032	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2883	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3033	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3034	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3035	1-216-809-11	METAL CHIP	100	5%	1/10W
R2886	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3036	1-216-809-11	METAL CHIP	100	5%	1/10W
R2887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3037	1-216-809-11	METAL CHIP	100	5%	1/10W
R2889	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3038	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3039	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3040	1-218-686-11	METAL CHIP	560	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3043	1-216-864-11	SHORT CHIP				R3110	1-216-809-11	METAL CHIP	100	5%	1/10W
R3045	1-216-809-11	METAL CHIP	100	5%	1/10W	R3111	1-216-809-11	METAL CHIP	100	5%	1/10W
R3047	1-216-864-11	SHORT CHIP				R3116	1-216-797-11	METAL CHIP	10	5%	1/10W
R3049	1-216-859-11	METAL CHIP	1.5M	5%	1/10W	R3117	1-216-797-11	METAL CHIP	10	5%	1/10W
R3050	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3150	1-216-864-11	SHORT CHIP			
R3051	1-216-864-11	SHORT CHIP				R3302	1-216-817-11	METAL CHIP	470	5%	1/10W
R3056	1-216-817-11	METAL CHIP	470	5%	1/10W	R3303	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3057	1-216-817-11	METAL CHIP	470	5%	1/10W	R3304	1-216-809-11	METAL CHIP	100	5%	1/10W
R3058	1-216-817-11	METAL CHIP	470	5%	1/10W	R3323	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3059	1-216-809-11	METAL CHIP	100	5%	1/10W	R3324	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3060	1-216-809-11	METAL CHIP	100	5%	1/10W	R3325	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3061	1-216-809-11	METAL CHIP	100	5%	1/10W	R3326	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3063	1-216-864-11	SHORT CHIP				R3335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3064	1-216-864-11	SHORT CHIP				R3341	1-216-813-11	METAL CHIP	220	5%	1/10W
R3066	1-216-809-11	METAL CHIP	100	5%	1/10W	R3342	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W
R3068	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3343	1-216-809-11	METAL CHIP	100	5%	1/10W
R3069	1-216-820-11	METAL CHIP	820	5%	1/10W	R3344	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3070	1-216-864-11	SHORT CHIP				R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3071	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3346	1-216-809-11	METAL CHIP	100	5%	1/10W
R3072	1-216-855-11	METAL CHIP	680K	5%	1/10W	R3347	1-216-815-11	METAL CHIP	330	5%	1/10W
R3073	1-216-855-11	METAL CHIP	680K	5%	1/10W	R3348	1-216-864-11	SHORT CHIP			
R3074	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W	R3349	1-218-687-11	METAL CHIP	620	0.50%	1/10W
R3075	1-216-801-11	METAL CHIP	22	5%	1/10W	R3350	1-216-814-11	METAL CHIP	270	5%	1/10W
R3076	1-216-864-11	SHORT CHIP				R3351	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3077	1-216-841-11	METAL CHIP	47K	5%	1/10W	R3352	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3078	1-216-815-11	METAL CHIP	330	5%	1/10W	R3353	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3079	1-216-815-11	METAL CHIP	330	5%	1/10W	R3354	1-216-813-11	METAL CHIP	220	5%	1/10W
R3089	1-216-864-11	SHORT CHIP				R3355	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3091	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3357	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3092	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3358	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3093	1-216-864-11	SHORT CHIP				R3359	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3095	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3360	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3096	1-216-817-11	METAL CHIP	470	5%	1/10W	R3364	1-216-864-11	SHORT CHIP			
R3097	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3365	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3098	1-216-805-11	METAL CHIP	47	5%	1/10W	R3366	1-216-864-11	SHORT CHIP			
R3099	1-216-805-11	METAL CHIP	47	5%	1/10W	R3367	1-216-805-11	METAL CHIP	47	5%	1/10W
R3100	1-216-809-11	METAL CHIP	100	5%	1/10W	R3369	1-216-864-11	SHORT CHIP			
R3101	1-216-809-11	METAL CHIP	100	5%	1/10W	R3370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3102	1-216-809-11	METAL CHIP	100	5%	1/10W	R3371	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3103	1-216-809-11	METAL CHIP	100	5%	1/10W	R3372	1-216-817-11	METAL CHIP	470	5%	1/10W
R3104	1-216-809-11	METAL CHIP	100	5%	1/10W	R3373	1-216-817-11	METAL CHIP	470	5%	1/10W
R3105	1-216-809-11	METAL CHIP	100	5%	1/10W	R3374	1-216-809-11	METAL CHIP	100	5%	1/10W
R3107	1-216-864-11	SHORT CHIP				R3375	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3108	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3376	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3377	1-216-817-11	METAL CHIP	470	5%	1/10W	R3447	1-216-819-11	METAL CHIP	680	5%	1/10W
R3378	1-216-817-11	METAL CHIP	470	5%	1/10W	R3448	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3379	1-216-809-11	METAL CHIP	100	5%	1/10W	R3451	1-216-809-11	METAL CHIP	100	5%	1/10W
R3380	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R3452	1-216-864-11	SHORT CHIP			
R3381	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R3454	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3382	1-216-864-11	SHORT CHIP				R3457	1-216-813-11	METAL CHIP	220	5%	1/10W
R3383	1-216-817-11	METAL CHIP	470	5%	1/10W	R3460	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3384	1-216-864-11	SHORT CHIP				R3461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3385	1-216-864-11	SHORT CHIP				R3464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3386	1-216-864-11	SHORT CHIP				R3465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3387	1-216-864-11	SHORT CHIP				R3466	1-216-813-11	METAL CHIP	220	5%	1/10W
R3388	1-216-864-11	SHORT CHIP				R3467	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3389	1-216-864-11	SHORT CHIP				R3468	1-216-864-11	SHORT CHIP			
R3390	1-216-864-11	SHORT CHIP				R3469	1-216-864-11	SHORT CHIP			
R3391	1-216-864-11	SHORT CHIP				R3470	1-216-809-11	METAL CHIP	100	5%	1/10W
R3392	1-216-864-11	SHORT CHIP				R3471	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3393	1-216-864-11	SHORT CHIP				R3472	1-216-801-11	METAL CHIP	22	5%	1/10W
R3394	1-216-864-11	SHORT CHIP				R3473	1-216-864-11	SHORT CHIP			
R3400	1-216-864-11	SHORT CHIP				R3475	1-216-809-11	METAL CHIP	100	5%	1/10W
R3401	1-216-864-11	SHORT CHIP				R3476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3406	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3477	1-216-809-11	METAL CHIP	100	5%	1/10W
R3407	1-216-864-11	SHORT CHIP				R3478	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3409	1-216-864-11	SHORT CHIP				R3480	1-216-809-11	METAL CHIP	100	5%	1/10W
R3410	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3483	1-216-809-11	METAL CHIP	100	5%	1/10W
R3411	1-216-797-11	METAL CHIP	10	5%	1/10W	R3484	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3421	1-216-864-11	SHORT CHIP				R3485	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3422	1-216-864-11	SHORT CHIP				R3486	1-216-801-11	METAL CHIP	22	5%	1/10W
R3423	1-216-813-11	METAL CHIP	220	5%	1/10W	R3489	1-216-864-11	SHORT CHIP			
R3425	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W	R3490	1-216-864-11	SHORT CHIP			
R3426	1-216-809-11	METAL CHIP	100	5%	1/10W	R3491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3428	1-469-094-21	FERRITE	0μH			R3492	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3429	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R3493	1-216-809-11	METAL CHIP	100	5%	1/10W
R3432	1-216-815-11	METAL CHIP	330	5%	1/10W	R3494	1-216-813-11	METAL CHIP	220	5%	1/10W
R3434	1-216-809-11	METAL CHIP	100	5%	1/10W	R3495	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3435	1-216-809-11	METAL CHIP	100	5%	1/10W	R3496	1-216-801-11	METAL CHIP	22	5%	1/10W
R3436	1-216-809-11	METAL CHIP	100	5%	1/10W	R3497	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3437	1-216-809-11	METAL CHIP	100	5%	1/10W	R3498	1-216-818-11	METAL CHIP	560	5%	1/10W
R3438	1-216-809-11	METAL CHIP	100	5%	1/10W	R3499	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3439	1-216-809-11	METAL CHIP	100	5%	1/10W	R3501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3440	1-216-809-11	METAL CHIP	100	5%	1/10W	R3502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3441	1-216-809-11	METAL CHIP	100	5%	1/10W	R3503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3442	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3445	1-216-864-11	SHORT CHIP				R3505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3446	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3506	1-216-821-11	METAL CHIP	1K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3507	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3821	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3508	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3822	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3509	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3823	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3510	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3824	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3511	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3825	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3512	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3826	1-216-809-11	METAL CHIP	100	5%	1/10W
R3533	1-216-809-11	METAL CHIP	100	5%	1/10W	R3828	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3535	1-216-809-11	METAL CHIP	100	5%	1/10W	R3829	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3536	1-216-864-11	SHORT CHIP				R3830	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3537	1-216-864-11	SHORT CHIP				R3831	1-216-864-11	SHORT CHIP			
R3601	1-216-864-11	SHORT CHIP				R3832	1-216-864-11	SHORT CHIP			
R3602	1-216-864-11	SHORT CHIP				R3833	1-216-864-11	SHORT CHIP			
R3603	1-216-864-11	SHORT CHIP				R3834	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3604	1-216-864-11	SHORT CHIP				R3835	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3605	1-216-864-11	SHORT CHIP				R3836	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3606	1-216-864-11	SHORT CHIP				R3837	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3607	1-216-864-11	SHORT CHIP				R3838	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3608	1-216-864-11	SHORT CHIP				R3839	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3609	1-216-864-11	SHORT CHIP				R3840	1-216-805-11	METAL CHIP	47	5%	1/10W
R3610	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3841	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3611	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3842	1-218-689-11	METAL CHIP	750	0.50%	1/10W
R3612	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3846	1-216-801-11	METAL CHIP	22	5%	1/10W
R3613	1-216-801-11	METAL CHIP	22	5%	1/10W	R3847	1-216-801-11	METAL CHIP	22	5%	1/10W
R3614	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3615	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W	R3849	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3616	1-216-809-11	METAL CHIP	100	5%	1/10W	R3850	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3618	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3851	1-216-809-11	METAL CHIP	100	5%	1/10W
R3800	1-216-864-11	SHORT CHIP				R3852	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3802	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3854	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3803	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3857	1-216-809-11	METAL CHIP	100	5%	1/10W
R3804	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3805	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3807	1-218-670-11	METAL CHIP	120	0.50%	1/10W	R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R3808	1-218-670-11	METAL CHIP	120	0.50%	1/10W	R3864	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3809	1-218-670-11	METAL CHIP	120	0.50%	1/10W	R3865	1-216-809-11	METAL CHIP	100	5%	1/10W
R3810	1-218-670-11	METAL CHIP	120	0.50%	1/10W	R3866	1-414-234-22	FERRITE	0μH		
R3811	1-216-809-11	METAL CHIP	100	5%	1/10W	R3867	1-414-234-22	FERRITE	0μH		
R3812	1-216-809-11	METAL CHIP	100	5%	1/10W	R3868	1-414-234-22	FERRITE	0μH		
R3813	1-216-809-11	METAL CHIP	100	5%	1/10W	R3881	1-216-807-11	METAL CHIP	68	5%	1/10W
R3814	1-218-644-11	METAL CHIP	10	0.50%	1/10W	R3882	1-216-807-11	METAL CHIP	68	5%	1/10W
R3815	1-218-648-11	METAL CHIP	15	0.50%	1/10W	R3883	1-216-807-11	METAL CHIP	68	5%	1/10W
R3816	1-218-652-11	METAL CHIP	22	0.50%	1/10W	R3911	1-216-821-11	METAL CHIP	1K	5%	1/10
R3817	1-218-652-11	METAL CHIP	22	0.50%	1/10W	R3933	1-216-864-11	SHORT CHIP			
R3820	1-218-684-11	METAL CHIP	470	0.50%	1/10W	R3937	1-216-809-11	METAL CHIP	100	5%	1/10W

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BM1C


REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3953	1-216-821-11	METAL CHIP	1K	5%	1/10W	RB3408	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3954	1-216-821-11	METAL CHIP	1K	5%	1/10W	RB3409	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3955	1-216-821-11	METAL CHIP	1K	5%	1/10W	RB3410	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3956	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	RB3411	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3957	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	RB3412	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3958	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	RB3421	1-233-576-11	RES, CHIP NETWORK	100		
R3975	1-216-864-11	SHORT CHIP				RB3422	1-233-576-11	RES, CHIP NETWORK	100		
R3976	1-216-864-11	SHORT CHIP				RB3423	1-233-576-11	RES, CHIP NETWORK	100		
R3977	1-216-864-11	SHORT CHIP				RB3424	1-233-576-11	RES, CHIP NETWORK	100		
R3978	1-216-864-11	SHORT CHIP				RB3425	1-233-576-11	RES, CHIP NETWORK	100		
R3979	1-216-864-11	SHORT CHIP				RB3426	1-233-576-11	RES, CHIP NETWORK	100		
R3980	1-216-864-11	SHORT CHIP				RB3427	1-233-576-11	RES, CHIP NETWORK	100		
R3981	1-216-864-11	SHORT CHIP				RB3428	1-233-576-11	RES, CHIP NETWORK	100		
R3982	1-216-864-11	SHORT CHIP				RB3436	1-234-523-21	RES, CHIP NETWORK	0	(3216)	
R3983	1-216-864-11	SHORT CHIP				RB3437	1-234-523-21	RES, CHIP NETWORK	0	(3216)	
R3984	1-218-644-11	METAL CHIP	10	0.50%	1/10W	RB3438	1-234-523-21	RES, CHIP NETWORK	0	(3216)	
R3985	1-218-644-11	METAL CHIP	10	0.50%	1/10W	RB3439	1-234-523-21	RES, CHIP NETWORK	0	(3216)	
R3986	1-218-644-11	METAL CHIP	10	0.50%	1/10W						
<b>RESISTOR BRIDGE</b>						<b>CRYSTAL</b>					
RB3001	1-239-409-11	NETWORK RESISTOR(CHIP)	47			X2801	1-760-895-21	VIBRATOR, CERAMIC			
RB3002	1-239-409-11	NETWORK RESISTOR(CHIP)	47			X3089	1-781-945-21	VIBRATOR, CERAMIC			
RB3003	1-239-409-11	NETWORK RESISTOR(CHIP)	47			X3401	1-781-887-21	VIBRATOR, CRYSTAL			
RB3004	1-239-409-11	NETWORK RESISTOR(CHIP)	47								
RB3011	1-239-409-11	NETWORK RESISTOR(CHIP)	47								
RB3013	1-239-409-11	NETWORK RESISTOR(CHIP)	47								
RB3014	1-239-409-11	NETWORK RESISTOR(CHIP)	47								
RB3015	1-239-409-11	NETWORK RESISTOR(CHIP)	47								
RB3100	1-233-574-11	RES, CHIP NETWORK	10								
RB3101	1-233-574-11	RES, CHIP NETWORK	10								
RB3102	1-233-574-11	RES, CHIP NETWORK	10								
RB3103	1-233-574-11	RES, CHIP NETWORK	10								
RB3304	1-233-576-11	RES, CHIP NETWORK	100								
RB3305	1-233-576-11	RES, CHIP NETWORK	100								
RB3306	1-233-576-11	RES, CHIP NETWORK	100								
RB3307	1-233-576-11	RES, CHIP NETWORK	100								
RB3401	1-234-524-21	RES, CHIP NETWORK	33								
RB3402	1-234-524-21	RES, CHIP NETWORK	33								
RB3403	1-234-524-21	RES, CHIP NETWORK	33								
RB3404	1-234-524-21	RES, CHIP NETWORK	33								
RB3405	1-234-524-21	RES, CHIP NETWORK	33								
RB3406	1-234-524-21	RES, CHIP NETWORK	33								
RB3407	1-239-409-11	NETWORK RESISTOR(CHIP)	47								
						<b>BM1C</b>					
						Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.					
						* A-1300-690-A BM1C BOARD, COMPLETE					
						<b>CAPACITOR</b>					
						C103	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
						C105	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C106	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C107	1-126-390-11	ELECT CHIP	22μF	20%	6.3V
						C108	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C110	1-126-394-11	ELECT CHIP	10μF	20%	16V
						C112	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C118	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C123	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
						C124	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V


**BM1C**

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
C125	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	<b>FERRITE BEAD</b>			
C126	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB101	1-414-921-11	FERRITE	0μH
C127	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB102	1-414-921-11	FERRITE	0μH
C128	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB103	1-414-921-11	FERRITE	0μH
C129	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB104	1-414-921-11	FERRITE	0μH
						FB106	1-500-451-11	FERRITE	0μH
C130	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB109	1-414-921-11	FERRITE	0μH
C131	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB110	1-414-921-11	FERRITE	0μH
C132	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB111	1-414-921-11	FERRITE	0μH
C133	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB120	1-414-921-11	FERRITE	0μH
C134	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB121	1-414-921-11	FERRITE	0μH
C135	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V				
C136	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB122	1-414-921-11	FERRITE	0μH
C137	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB123	1-414-921-11	FERRITE	0μH
C138	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB124	1-414-921-11	FERRITE	0μH
C139	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB137	1-414-921-11	FERRITE	0μH
						FB141	1-414-921-11	FERRITE	0μH
C141	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V				
C142	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB143	1-414-921-11	FERRITE	0μH
C143	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB149	1-414-921-11	FERRITE	0μH
C144	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V				
C145	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	<b>IC</b>			
C146	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	IC101	6-702-978-01	IC	MD2406H
C147	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	IC102	6-802-277-11	IC	SST39VF800A70E-11300-T
C148	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	IC104	8-759-460-72	IC	BA033FP-E2
C151	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	IC106	8-759-697-54	IC	BR24C21F-E2
C154	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	IC107	8-759-331-27	IC	MM1096AFF
C162	1-126-394-11	ELECT CHIP	10μF	20%	16V	IC108	6-702-511-11	IC	MT48LC8M16A2TG-75-Y95WT
C163	1-126-394-11	ELECT CHIP	10μF	20%	16V	IC111	8-759-832-05	IC	BA18BC0FP-E2
C164	1-126-390-11	ELECT CHIP	22μF	20%	6.3V	IC121	8-752-932-19	IC	CXP86608-001R
C165	1-124-779-00	ELECT CHIP	10μF	20%	16V	<b>COIL</b>			
C166	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	L106	1-469-555-21	INDUCTOR	10μH
						L107	1-469-561-21	INDUCTOR	100μH
<b>CONNECTOR</b>						<b>TRANSISTOR</b>			
* CN104	1-816-933-21	CONNECTOR, BOARD TO BOARD 60P							
<b>DIODE</b>						Q101	8-729-013-28	TRANSISTOR	HN1B01FU-TE85R
D101	8-719-024-77	DIODE	HN1D03FU-TE85L			Q103	8-729-905-35	TRANSISTOR	2SC4081-R
D102	8-719-024-77	DIODE	HN1D03FU-TE85L			Q105	8-729-427-72	TRANSISTOR	XP4501
D201	8-719-024-77	DIODE	HN1D03FU-TE85L			Q110	8-729-900-53	TRANSISTOR	DTC114EK
						Q116	8-729-900-53	TRANSISTOR	DTC114EK
						Q201	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR
						Q202	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
						Q203	8-729-028-28	TRANSISTOR	2SK2036(TE85L)

**BM1C**

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
RESISTOR						R222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R101	1-216-797-11	METAL CHIP	10	5%	1/10W	R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R102	1-216-797-11	METAL CHIP	10	5%	1/10W	R230	1-216-833-11	METAL CHIP	10K	5%	1/10W
R103	1-216-797-11	METAL CHIP	10	5%	1/10W	R232	1-218-709-11	METAL CHIP	5.1K	0.50%	1/10W
R105	1-216-797-11	METAL CHIP	10	5%	1/10W	R238	1-216-864-11	SHORT CHIP			
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W	R239	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W	R240	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W	R283	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W	R287	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W	R288	1-216-797-11	METAL CHIP	10	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W	R290	1-216-797-11	METAL CHIP	10	5%	1/10W
						RESISTOR BRIDGE					
R124	1-216-864-11	SHORT CHIP				RB101	1-234-381-21	RES, NETWORK 100KX4		(1005)	
R125	1-216-864-11	SHORT CHIP				RB102	1-234-381-21	RES, NETWORK 100KX4		(1005)	
R127	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB103	1-234-381-21	RES, NETWORK 100KX4		(1005)	
R128	1-216-864-11	SHORT CHIP				RB104	1-234-381-21	RES, NETWORK 100KX4		(1005)	
R129	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W	RB105	1-234-372-21	RES, NETWORK 100X4		(1005)	
R136	1-216-797-11	METAL CHIP	10	5%	1/10W	RB106	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R137	1-216-864-11	SHORT CHIP				RB107	1-234-370-21	RES, NETWORK 22X4		(1005)	
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB108	1-234-370-21	RES, NETWORK 22X4		(1005)	
R144	1-216-809-11	METAL CHIP	100	5%	1/10W	RB109	1-234-370-21	RES, NETWORK 22X4		(1005)	
R145	1-216-809-11	METAL CHIP	100	5%	1/10W	RB110	1-234-370-21	RES, NETWORK 22X4		(1005)	
R148	1-216-839-11	METAL CHIP	33K	5%	1/10W	RB111	1-234-370-21	RES, NETWORK 22X4		(1005)	
R149	1-216-839-11	METAL CHIP	33K	5%	1/10W	RB112	1-234-370-21	RES, NETWORK 22X4		(1005)	
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB113	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R155	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB114	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R158	1-216-864-11	SHORT CHIP				RB115	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R161	1-216-801-11	METAL CHIP	22	5%	1/10W	RB121	1-234-371-21	RES, NETWORK 47X4		(1005)	
R164	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB122	1-234-371-21	RES, NETWORK 47X4		(1005)	
R186	1-216-864-11	SHORT CHIP				RB123	1-234-371-21	RES, NETWORK 47X4		(1005)	
R189	1-216-864-11	SHORT CHIP				RB124	1-234-371-21	RES, NETWORK 47X4		(1005)	
R190	1-216-864-11	SHORT CHIP				RB131	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R201	1-216-845-11	METAL CHIP	100K	5%	1/10W	RB132	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB133	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB134	1-234-378-21	RES, NETWORK 10KX4		(1005)	
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R206	1-216-809-11	METAL CHIP	100	5%	1/10W	CRYSTAL					
R208	1-216-845-11	METAL CHIP	100K	5%	1/10W	X101	1-795-725-22	CRYSTAL OSCILLATOR (SMD)			
R209	1-216-845-11	METAL CHIP	100K	5%	1/10W	X102	1-795-313-21	VIBRATOR, CERAMIC			
R213	1-218-830-11	METAL CHIP	200	0.50%	1/10W						
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R218	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R221	1-216-809-11	METAL CHIP	100	5%	1/10W						


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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
<div>A</div>						C547	1-126-767-11	ELECT	1000µF	20%	16V
						C548	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
						C549	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
*	<b>A-1302-350-A A BOARD, COMPLETE</b>					C550	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	4-382-854-01	SCREW (M3X8), P, SW (+)				C551	1-126-933-11	ELECT	100µF	20%	16V
	4-382-854-21	SCREW (M3X14), P, SW (+)									
*	A188	4-374-846-11	COVER, CAPACITOR, CAP TYPE								
<b>CAPACITOR</b>											
	C501	1-165-529-11	MYLAR	0.22µF	10	275V					
⚠	C503	1-165-529-11	MYLAR	0.22µF	10	275V					
	C504	1-126-961-11	ELECT	2.2µF	20%	50V					
⚠	C505	1-127-794-51	CERAMIC	2200pF	20%	250V					
	C506	1-126-971-11	ELECT	470µF	20%	50V					
	C507	1-126-943-11	ELECT	2200µF	20%	25V					
⚠	C508	1-127-794-51	CERAMIC	2200pF	20%	250V					
	C510	1-164-156-11	CERAMIC CHIP	0.1µF		25V					
⚠	C512	1-165-530-21	MYLAR	0.47µF	10	0V					
	C513	1-126-961-11	ELECT	2.2µF	20%	50V					
	C514	1-126-960-11	ELECT	1µF	20%	50V					
	C515	1-126-947-11	ELECT	47µF	20%	35V					
	C516	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V					
	C517	1-104-665-11	ELECT	100µF	20%	25V					
	C518	1-126-967-11	ELECT	47µF	20%	50V					
	C519	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V					
	C520	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V					
	C521	1-104-665-11	ELECT	100µF	20%	25V					
	C522	1-126-964-11	ELECT	10µF	20%	50V					
	C523	1-104-665-11	ELECT	100µF	20%	25V					
	C524	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V					
	C525	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V					
	C526	1-162-927-11	CERAMIC CHIP	100pF	5%	50V					
	C527	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V					
	C528	1-126-933-11	ELECT	100µF	20%	16V					
	C530	1-126-941-11	ELECT	470µF	20%	25V					
	C531	1-130-495-00	MYLAR	0.1µF	5%	50V					
	C533	1-130-495-00	MYLAR	0.1µF	5%	50V					
	C535	1-115-156-11	CERAMIC CHIP	1µF		10V					
	C536	1-126-933-11	ELECT	100µF	20%	16V					
	C537	1-126-941-11	ELECT	470µF	20%	25V					
	C538	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V					
	C540	1-126-767-11	ELECT	1000µF	20%	16V					
	C541	1-162-961-11	CERAMIC CHIP	330pF	10%	50V					
	C542	1-126-941-11	ELECT	470µF	20%	25V					


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
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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D540	8-719-991-33	DIODE	1SS133T-77	<b>COIL</b>			
D541	8-719-991-33	DIODE	1SS133T-77	L501	1-469-320-21	INDUCTOR	100μH
D900	8-719-110-31	DIODE	RD12ESB2	L502	1-412-525-31	INDUCTOR	10μH
D901	8-719-063-74	DIODE	D1NL20U-TR2	L503	1-469-320-21	INDUCTOR	100μH
D903	8-719-110-31	DIODE	RD12ESB2	L504	1-469-317-21	INDUCTOR	10μH
<b>FUSE</b>				L505	1-469-320-21	INDUCTOR	100μH
 F501	1-532-506-51	FUSE	6.3A 250V	L506	1-469-320-21	INDUCTOR	100μH
<b>FERRITE BEAD</b>				L507	1-469-317-21	INDUCTOR	10μH
FB500	1-412-911-11	FERRITE	0μH	L508	1-412-529-11	INDUCTOR	22μH
FB502	1-412-911-11	FERRITE	0μH	 L510	1-433-404-21	TRANSFORMER, LINE FILTER	
FB901	1-410-397-21	FERRITE	1.1μH	 L511	1-433-404-21	TRANSFORMER, LINE FILTER	
<b>FUSE HOLDER</b>				L900	1-408-612-31	INDUCTOR	56μH
 FH501	1-533-223-11	FUSE HOLDER	0A 0V	<b>IC LINK</b>			
 FH502	1-533-223-11	FUSE HOLDER	0A 0V	 PS501	1-532-984-11	IC LINK	2A 50V
<b>IC</b>				 PS502	1-532-984-11	IC LINK	2A 50V
IC501	8-759-450-47	IC	BA05T	PS900	1-532-637-00	IC LINK	1A 50V
IC502	8-759-520-49	IC	PQ30RV21	PS901	1-532-637-00	IC LINK	1A 50V
IC504	6-700-898-01	IC	PQ05RD21	<b>TRANSISTOR</b>			
IC505	8-759-653-07	IC	PQ09RD21	Q501	8-729-422-27	TRANSISTOR	2SD601A-Q
IC508	8-759-246-70	IC	TA8216H	Q502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
IC509	8-759-246-70	IC	TA8216H	Q503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
IC901	8-759-450-47	IC	BA05T	Q504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
<b>CHIP CONDUCTOR</b>				Q505	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR501	1-216-864-11	SHORT CHIP		Q506	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR502	1-216-864-11	SHORT CHIP		Q507	8-729-422-27	TRANSISTOR	2SD601A-Q
JR509	1-216-864-11	SHORT CHIP		Q508	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR510	1-216-864-11	SHORT CHIP		Q509	8-729-422-27	TRANSISTOR	2SD601A-Q
JR511	1-216-864-11	SHORT CHIP		Q510	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR512	1-216-864-11	SHORT CHIP		Q511	8-729-422-27	TRANSISTOR	2SD601A-Q
JR513	1-216-864-11	SHORT CHIP		Q512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR514	1-216-864-11	SHORT CHIP		Q513	8-729-422-27	TRANSISTOR	2SD601A-Q
JR515	1-216-864-11	SHORT CHIP		Q514	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
JR516	1-216-864-11	SHORT CHIP		Q515	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q516	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q517	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q518	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q519	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q524	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q527	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
				Q900	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
				Q901	8-729-422-27	TRANSISTOR	2SD601A-Q


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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q903	8-729-422-27	TRANSISTOR	2SD601A-Q			R546	1-216-805-11	METAL CHIP	47	5%	1/10W
Q904	8-729-422-27	TRANSISTOR	2SD601A-Q			R547	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
RESISTOR						R548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R501	1-216-864-11	SHORT CHIP				R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W	R551	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W	R552	1-216-837-11	METAL CHIP	22K	5%	1/10W
R506	1-216-857-11	METAL CHIP	1M	5%	1/10W	R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R507	1-247-895-91	CARBON	470K	5%	1/4W	R554	1-216-864-11	SHORT CHIP			
⚠ R508	1-219-512-11	METAL	2.2M	5%	1/2W	R555	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R509	1-244-270-11	CEMENTED	0.47	5%	20W	R556	1-216-839-11	METAL CHIP	33K	5%	1/10W
⚠ R510	1-244-270-11	CEMENTED	0.47	5%	20W	R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R511	1-216-849-11	METAL CHIP	220K	5%	1/10W	R558	1-216-857-11	METAL CHIP	1M	5%	1/10W
R512	1-216-849-11	METAL CHIP	220K	5%	1/10W	R559	1-216-847-11	METAL CHIP	150K	5%	1/10W
R513	1-216-833-11	METAL CHIP	10K	5%	1/10W	R560	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R515	1-216-833-11	METAL CHIP	10K	5%	1/10W	R563	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R516	1-216-857-11	METAL CHIP	1M	5%	1/10W	R564	1-216-847-11	METAL CHIP	150K	5%	1/10W
R517	1-216-805-11	METAL CHIP	47	5%	1/10W	R565	1-216-821-11	METAL CHIP	1K	5%	1/10W
R518	1-216-805-11	METAL CHIP	47	5%	1/10W	R566	1-216-864-11	SHORT CHIP			
R519	1-216-839-11	METAL CHIP	33K	5%	1/10W	R567	1-216-864-11	SHORT CHIP			
R520	1-216-837-11	METAL CHIP	22K	5%	1/10W	R568	1-216-864-11	SHORT CHIP			
R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R569	1-216-864-11	SHORT CHIP			
R522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W	R572	1-216-809-11	METAL CHIP	100	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W	R573	1-216-847-11	METAL CHIP	150K	5%	1/10W
⚠ R527	1-216-341-11	METAL OXIDE	0.22	5%	1W	R574	1-216-809-11	METAL CHIP	100	5%	1/10W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W	R575	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R529	1-216-857-11	METAL CHIP	1M	5%	1/10W	R576	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R530	1-216-847-11	METAL CHIP	150K	5%	1/10W	R577	1-216-821-11	METAL CHIP	1K	5%	1/10W
R531	1-216-821-11	METAL CHIP	1K	5%	1/10W	R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R532	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R579	1-216-821-11	METAL CHIP	1K	5%	1/10W
R533	1-216-833-11	METAL CHIP	10K	5%	1/10W	R580	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R534	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R584	1-216-813-11	METAL CHIP	220	5%	1/10W
R535	1-218-722-11	METAL CHIP	18K	0.50%	1/10W	R585	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R586	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R537	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	R587	1-216-833-11	METAL CHIP	10K	5%	1/10W
R538	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R588	1-216-833-11	METAL CHIP	10K	5%	1/10W
R539	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R589	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W	R590	1-216-813-11	METAL CHIP	220	5%	1/10W
R541	1-216-833-11	METAL CHIP	10K	5%	1/10W	R591	1-216-821-11	METAL CHIP	1K	5%	1/10W
R542	1-216-821-11	METAL CHIP	1K	5%	1/10W	R592	1-216-833-11	METAL CHIP	10K	5%	1/10W
R543	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R595	1-216-813-11	METAL CHIP	220	5%	1/10W
R544	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R596	1-216-833-11	METAL CHIP	10K	5%	1/10W
R545	1-216-805-11	METAL CHIP	47	5%	1/10W	R598	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R599	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.


NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R600	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R951	1-216-833-11	METAL CHIP	10K	5%	1/10W
R601	1-216-813-11	METAL CHIP	220	5%	1/10W	R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W	R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R956	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R957	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W	R959	1-216-815-11	METAL CHIP	330	5%	1/10W
R607	1-216-833-11	METAL CHIP	10K	5%	1/10W	R960	1-216-821-11	METAL CHIP	1K	5%	1/10W
R608	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R611	1-216-833-11	METAL CHIP	10K	5%	1/10W						
						<u>RELAY</u>					
							RY501	1-755-389-11	RELAY (AC POWER)		
						<u>TRANSFORMER</u>					
							T502	1-437-697-11	TRANSFORMER, STANDBY		
						<u>THERMISTOR</u>					
							TH501	1-803-970-11	THERMISTOR, POSITIVE		
						<u>TUNER</u>					
						TU501	8-598-594-20	TUNER, FSS BTF-FA421			
						TU502	8-598-593-40	TUNER, FSS BTF-WA421			
						<u>VARISTOR</u>					
							VD501	1-804-992-21	VARISTOR		
											
						*	<b>A-1302-534-A</b>	<b>D BOARD, COMPLETE</b>			
							3-710-578-01	COVER, VOLUME, 6 MOLD			
							4-382-854-01	SCREW (M3X8), P, SW (+)			
							4-382-854-21	SCREW (M3X14), P, SW (+)			
						The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D Board:					
							1-251-715-22	CAP ASSY, HIGH-VOLTAGE			
							1-900-805-19	WIRE ASSY, FOCUS HV			
							1-900-805-22	CONNECTOR ASSY, G2 HV			
						<u>CAPACITOR</u>					
						C5001	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5002	1-106-383-00	MYLAR	0.047μF	10%	200V	C5060	1-137-417-11	MYLAR	0.015μF	10%	100V
C5003	1-162-967-11	CERAMIC CHIP	0.0033μF	10%	50V	C5061	1-117-833-21	FILM	5100pF	3%	1.5KV
C5004	1-106-383-00	MYLAR	0.047μF	10%	200V	C5064	1-117-665-11	FILM	0.33μF	5%	250V
C5005	1-126-235-11	ELECT	100μF	20%	16V	C5065	1-117-664-11	FILM	0.27μF	5%	250V
C5006	1-126-964-11	ELECT	10μF	20%	50V	C5066	1-109-921-11	CERAMIC	0.0015μF	10%	500V
C5007	1-126-941-11	ELECT	470μF	20%	25V	C5070	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5009	1-126-941-11	ELECT	470μF	20%	25V	C5071	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5010	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C5074	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C5011	1-107-641-11	ELECT	220μF	20%	160V	C5075	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5012	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C5076	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5013	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C5077	1-164-360-11	CERAMIC CHIP	0.1μF		16V
C5014	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C5078	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
C5016	1-130-783-71	MYLAR	0.33μF	10%	100V	C5079	1-162-965-11	CERAMIC CHIP	0.0015μF	10%	50V
C5017	1-164-677-11	CERAMIC CHIP	0.033μF	10%	16V	C5082	1-117-832-21	FILM	4700pF	3%	1.5KV
C5018	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C5084	1-126-941-11	ELECT	470μF	20%	25V
C5019	1-126-968-11	ELECT	100μF	20%	50V	C5086	1-126-941-11	ELECT	470μF	20%	25V
C5020	1-104-665-11	ELECT	100μF	20%	25V	C5502	1-126-941-11	ELECT	470μF	20%	25V
C5022	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C5504	1-126-947-11	ELECT	47μF	20%	35V
C5024	1-102-038-00	CERAMIC	0.001μF		500V	C5505	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5028	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V	C5506	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C5029	1-115-349-51	CERAMIC	0.01μF		2KV	C5511	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5030	1-137-365-11	MYLAR	0.0015μF	5%	50V	C5512	1-162-974-11	CERAMIC CHIP	0.01μF		50V
C5031	1-162-965-11	CERAMIC CHIP	0.0015μF	10%	50V	C5513	1-162-974-11	CERAMIC CHIP	0.01μF		50V
C5032	1-165-176-11	CERAMIC CHIP	0.047μF	10%	16V	C5514	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5033	1-130-495-00	MYLAR	0.1μF	5%	50V	C5515	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5035	1-104-665-11	ELECT	100μF	20%	25V	C5516	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5036	1-126-941-11	ELECT	470μF	20%	25V	C5517	1-129-716-00	FILM	0.015μF	5%	400V
C5039	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C5518	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5040	1-126-935-11	ELECT	470μF	20%	16V	C5519	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C5041	1-126-935-11	ELECT	470μF	20%	16V	C5520	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5044	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C5521	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5045	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C5522	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V
C5046	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V	C5523	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5047	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V	C5524	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5048	1-162-953-11	CERAMIC CHIP	100pF	5%	50V	C5526	1-162-967-11	CERAMIC CHIP	0.0033μF	10%	50V
C5049	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C5527	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5050	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C5528	1-129-709-91	FILM	0.0039μF	5%	630V
C5051	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C5529	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5052	1-126-947-11	ELECT	47μF	20%	35V	C5530	1-136-167-00	FILM	0.15μF	5%	50V
C5053	1-106-220-00	MYLAR	0.1μF	10%	100V	C5531	1-130-495-00	MYLAR	0.1μF	5%	50V
C5054	1-104-666-11	ELECT	220μF	20%	25V	C5533	1-126-961-11	ELECT	2.2μF	20%	50V
C5056	1-162-318-11	CERAMIC	0.001μF	10%	500V	C5534	1-126-947-11	ELECT	47μF	20%	35V
C5058	1-162-116-00	CERAMIC	680pF	10%	2KV	C5535	1-126-947-11	ELECT	47μF	20%	35V
C5059	1-162-116-00	CERAMIC	680pF	10%	2KV	C5540	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5548	1-137-194-81	FILM	0.47μF	5%	50V	C8005	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5550	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8006	1-126-960-11	ELECT	1μF	20%	50V
C5551	1-126-947-11	ELECT	47μF	20%	35V	C8007	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V
C5552	1-126-947-11	ELECT	47μF	20%	35V	C8012	1-126-947-11	ELECT	47μF	20%	35V
C5598	1-126-947-11	ELECT	47μF	20%	35V	C8015	1-126-947-11	ELECT	47μF	20%	35V
C5609	1-104-665-11	ELECT	100μF	20%	25V	C8016	1-130-495-00	MYLAR	0.1μF	5%	50V
C5623	1-104-665-11	ELECT	100μF	20%	25V	C8017	1-126-964-11	ELECT	10μF	20%	50V
C6502	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C8018	1-126-964-11	ELECT	10μF	20%	50V
C6503	1-131-940-11	ELECT	1200μF	20%	250V	C8020	1-130-495-00	MYLAR	0.1μF	5%	50V
C6507	1-130-495-00	MYLAR	0.1μF	5%	50V	C8021	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V
C6508	1-126-947-11	ELECT	47μF	20%	35V	C8024	1-126-967-11	ELECT	47μF	20%	50V
C6510	1-130-495-00	MYLAR	0.1μF	5%	50V	C8025	1-126-947-11	ELECT	47μF	20%	35V
C6511	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8027	1-130-495-00	MYLAR	0.1μF	5%	50V
C6513	1-126-940-11	ELECT	330μF	20%	25V	C8028	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C6514	1-126-767-11	ELECT	1000μF	20%	16V	C8030	1-165-176-11	CERAMIC CHIP	0.047μF	10%	16V
C6515	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8031	1-128-551-11	ELECT	22μF	20%	63V
C6516	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C8032	1-136-813-11	FILM	680pF	5%	100V
C6517	1-126-963-11	ELECT	4.7μF	20%	50V	C8033	1-126-964-11	ELECT	10μF	20%	50V
C6518	1-136-479-11	FILM	0.001μF	5%	100V	C8035	1-162-115-00	CERAMIC	330pF	10%	1KV
C6519	1-126-964-11	ELECT	10μF	20%	50V	C8036	1-162-115-00	CERAMIC	330pF	10%	1KV
C6525	1-125-969-91	CERAMIC	680pF	10%	1KV	C8037	1-165-953-11	FILM	47000pF	3%	800V
C6526	1-125-969-91	CERAMIC	680pF	10%	1KV	C8040	1-126-969-11	ELECT	220μF	20%	50V
C6532	1-137-741-22	FILM	39000pF	3%	800V	C8041	1-130-495-00	MYLAR	0.1μF	5%	50V
C6546	1-126-974-11	ELECT	3300μF	20%	50V	C8042	1-136-189-00	MYLAR	0.1μF	10%	250V
C6549	1-126-969-11	ELECT	220μF	20%	50V	C8045	1-130-471-00	MYLAR	0.001μF	5%	50V
C6550	1-126-968-11	ELECT	100μF	20%	50V	C8048	1-130-495-00	MYLAR	0.1μF	5%	50V
C6551	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C8050	1-100-122-31	FILM	0.022μF	5%	400V
C6552	1-126-937-11	ELECT	4700μF	20%	16V	C8051	1-126-964-11	ELECT	10μF	20%	50V
C6554	1-126-768-11	ELECT	2200μF	20%	16V	C8052	1-104-665-11	ELECT	100μF	20%	25V
C6555	1-104-665-11	ELECT	100μF	20%	25V	C8053	1-162-117-00	CERAMIC	100pF	10%	500V
C6556	1-123-024-21	ELECT	33μF		160V	C8054	1-102-244-00	CERAMIC	220pF	10%	500V
C6557	1-107-654-11	ELECT	33μF	20%	250V	C8055	1-100-144-31	FILM	0.0068μF	5%	630V
C6558	1-126-967-11	ELECT	47μF	20%	50V	C8056	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C6559	1-126-942-61	ELECT	1000μF	20%	25V	C8058	1-137-194-81	FILM	0.47μF	5%	50V
C6584	1-165-528-11	MYLAR	0.1μF	10	275V	C8059	1-126-947-11	ELECT	47μF	20%	35V
C6590	1-131-940-11	ELECT	1200μF	20%	250V	C8060	1-106-371-00	MYLAR	0.015μF	99%	200V
 C6592	1-119-898-51	CERAMIC	470pF	10%	250V	C8063	1-165-607-91	FILM	10000pF	3%	800V
C6593	1-126-768-11	ELECT	2200μF	20%	16V	C8065	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
C6595	1-104-666-11	ELECT	220μF	20%	25V	C8073	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C6596	1-126-960-11	ELECT	1μF	20%	50V	C8074	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C6597	1-126-943-11	ELECT	2200μF	20%	25V	C8075	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C8001	1-126-964-11	ELECT	10μF	20%	50V	C8076	1-126-963-11	ELECT	4.7μF	20%	50V
C8002	1-126-964-11	ELECT	10μF	20%	50V	C8077	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C8003	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8079	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V




REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C8139	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V	D5512	8-719-062-51	DIODE	1PS226-115
<b>CONNECTOR</b>				D5513	8-719-404-50	DIODE	MA111-TX
* CN5001	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	D5514	8-719-060-90	DIODE	S2L60F
* CN5002	1-580-798-11	CONNECTOR PIN (DY)	6P	D5515	8-719-404-50	DIODE	MA111-TX
* CN5003	1-564-507-11	PLUG, CONNECTOR	4P	D6502	8-719-979-64	DIODE	μF4005PKG23
* CN5009	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	D6504	8-719-075-66	DIODE	D5LC20U-4012
* CN5011	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	D6505	8-719-404-50	DIODE	MA111-TX
* CN5509	1-564-515-11	PLUG, CONNECTOR	12P	D6508	8-719-982-27	DIODE	MTZJ-33C
* CN6502	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P	D6509	8-719-068-00	DIODE	ERC04-06SE
* CN6503	1-564-508-11	PLUG, CONNECTOR	5P	D6510	8-719-068-00	DIODE	ERC04-06SE
* CN6504	1-564-515-11	PLUG, CONNECTOR	12P	D6513	8-719-510-12	DIODE	D10SC4M
* CN6506	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	D6514	8-719-060-89	DIODE	D4SBS6-F
<b>DIODE</b>				D6516	8-719-075-66	DIODE	D5LC20U-4012
D5001	8-719-083-60	DIODE	UDZSTE-174.7B	D6518	8-719-052-90	DIODE	D1NL40-TA2
D5002	8-719-908-03	DIODE	GP08D	D6519	8-719-063-74	DIODE	D1NL20U-TR2
D5003	8-719-028-45	DIODE	D2L20U	D6520	8-719-063-74	DIODE	D1NL20U-TR2
D5004	8-719-083-82	DIODE	UDZS-TE17-12B	D6521	8-719-404-50	DIODE	MA111-TX
D5005	8-719-404-50	DIODE	MA111-TX	D6523	8-719-060-89	DIODE	D4SBS6-F
D5006	8-719-404-50	DIODE	MA111-TX	D6524	8-719-062-40	DIODE	D4SBL20μF3
D5007	8-719-404-50	DIODE	MA111-TX	D6530	8-719-510-53	DIODE	D4SB60L
D5008	8-719-404-50	DIODE	MA111-TX	D6532	8-719-948-45	DIODE	ERA22-08
D5010	8-719-404-50	DIODE	MA111-TX	D6533	8-719-404-50	DIODE	MA111-TX
D5011	8-719-109-63	DIODE	RD3.0ESB2	D6534	8-719-404-50	DIODE	MA111-TX
D5014	8-719-075-66	DIODE	D5LC20U-4012	D6537	8-719-404-50	DIODE	MA111-TX
D5016	8-719-028-45	DIODE	D2L20U	D6538	8-719-109-85	DIODE	RD5.1ESB2
D5017	8-719-028-45	DIODE	D2L20U	D8001	8-719-404-50	DIODE	MA111-TX
D5018	8-719-083-83	DIODE	UDZS-TE17-15B	D8003	8-719-404-50	DIODE	MA111-TX
D5019	8-719-404-50	DIODE	MA111-TX	D8005	8-719-404-50	DIODE	MA111-TX
D5023	8-719-061-21	DIODE	FMQ-G5FMS	D8006	8-719-063-74	DIODE	D1NL20U-TR2
D5027	8-719-404-50	DIODE	MA111-TX	D8007	8-719-404-50	DIODE	MA111-TX
D5028	8-719-404-50	DIODE	MA111-TX	D8009	8-719-083-83	DIODE	UDZS-TE17-15B
D5032	8-719-404-50	DIODE	MA111-TX	D8010	8-719-979-64	DIODE	μF4005PKG23
D5035	8-719-302-43	DIODE	EL1Z	D8011	8-719-110-41	DIODE	RD15ESB2
D5036	8-719-302-43	DIODE	EL1Z	D8012	8-719-110-41	DIODE	RD15ESB2
D5501	8-719-404-50	DIODE	MA111-TX	D8013	8-719-083-83	DIODE	UDZS-TE17-15B
D5502	8-719-404-50	DIODE	MA111-TX	D8014	8-719-083-83	DIODE	UDZS-TE17-15B
D5504	8-719-404-50	DIODE	MA111-TX	D8015	8-719-404-50	DIODE	MA111-TX
D5506	8-719-404-50	DIODE	MA111-TX	D8016	8-719-948-45	DIODE	ERA22-08
D5508	8-719-404-50	DIODE	MA111-TX	D8017	8-719-948-45	DIODE	ERA22-08
D5511	8-719-062-51	DIODE	1PS226-115	D8018	8-719-948-45	DIODE	ERA22-08
				D8022	8-719-063-74	DIODE	D1NL20U-TR2
				D8023	8-719-109-85	DIODE	RD5.1ESB2
				D8024	8-719-109-93	DIODE	RD6.2ESB2
				D8026	8-719-404-50	DIODE	MA111-TX




REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D8028	8-719-069-54	DIODE	UDZSTE-175.1B	<b>CHIP CONDUCTOR</b>			
D8030	8-719-083-66	DIODE	UDZSTE-1718B	JR5000	1-216-864-11	SHORT CHIP	
D8034	8-719-921-63	DIODE	MTZJ-7.5B	JR5001	1-216-864-11	SHORT CHIP	
D8140	8-719-404-50	DIODE	MA111-TX	JR5002	1-216-864-11	SHORT CHIP	
<b>FERRITE BEAD</b>				JR5003	1-216-864-11	SHORT CHIP	
FB5001	1-410-397-21	FERRITE	1.1μH	JR5004	1-216-864-11	SHORT CHIP	
FB5002	1-543-298-11	FERRITE	0μH	JR5005	1-216-864-11	SHORT CHIP	
FB5003	1-410-397-21	FERRITE	1.1μH	JR5006	1-216-864-11	SHORT CHIP	
FB6501	1-410-397-21	FERRITE	1.1μH	JR5007	1-216-864-11	SHORT CHIP	
FB6508	1-410-396-41	FERRITE	0.45μH	JR5008	1-216-864-11	SHORT CHIP	
FB6509	1-410-396-41	FERRITE	0.45μH	JR5009	1-216-864-11	SHORT CHIP	
FB6519	1-410-397-21	FERRITE	1.1μH	JR5010	1-216-864-11	SHORT CHIP	
FB6520	1-412-911-11	FERRITE	0μH	JR5011	1-216-864-11	SHORT CHIP	
FB6521	1-412-911-11	FERRITE	0μH	JR5012	1-216-864-11	SHORT CHIP	
FB8001	1-412-911-11	FERRITE	0μH	JR5013	1-216-864-11	SHORT CHIP	
FB8002	1-412-911-11	FERRITE	0μH	JR5014	1-216-864-11	SHORT CHIP	
<b>IC</b>				JR5015	1-216-864-11	SHORT CHIP	
IC5001	8-759-701-01	IC	NJM2904M	JR5016	1-216-864-11	SHORT CHIP	
IC5002	8-759-700-07	IC	NJM2903M	JR5017	1-216-864-11	SHORT CHIP	
IC5003	8-759-701-01	IC	NJM2904M	JR5501	1-216-864-11	SHORT CHIP	
IC5004	8-759-696-71	IC	STV9379A	JR5504	1-216-864-11	SHORT CHIP	
IC5005	8-759-803-42	IC	LA6500-FA	JR5505	1-216-864-11	SHORT CHIP	
IC5006	8-749-013-76	IC	PQ6RD83B	JR8000	1-216-864-11	SHORT CHIP	
IC5007	8-759-981-61	IC	LM2901M	JR8001	1-216-864-11	SHORT CHIP	
IC5502	8-759-981-61	IC	LM2901M	JR8002	1-216-864-11	SHORT CHIP	
IC5504	8-759-803-42	IC	LA6500-FA	JR8003	1-216-864-11	SHORT CHIP	
IC5506	8-759-803-42	IC	LA6500-FA	JR8005	1-216-864-11	SHORT CHIP	
IC5511	8-759-701-01	IC	NJM2904M	JR8006	1-216-864-11	SHORT CHIP	
IC5512	8-759-929-65	IC	LM7912CT	JR8007	1-216-864-11	SHORT CHIP	
IC5515	8-759-701-01	IC	NJM2904M	JR8051	1-216-864-11	SHORT CHIP	
IC6500	8-759-347-19	IC	KIA7812PI	<b>COIL</b>			
IC6501	6-703-355-01	IC	MCZ3001DA	L5001	1-406-665-11	INDUCTOR	100μH
IC6502	8-759-518-68	IC	PQ12RF21	L5003	1-428-932-11	INDUCTOR	4MH
IC6503	8-749-012-13	IC	DM-58	L5005	1-424-997-11	COIL, HORIZONTAL LINEARITY	
IC6505	8-749-921-86	IC	SE-140N	L5504	1-406-987-21	INDUCTOR	4.7MH
IC8001	8-759-700-07	IC	NJM2903M	L5505	1-406-989-21	INDUCTOR	10MH
IC8002	6-703-355-01	IC	MCZ3001DA	L5506	1-406-987-21	INDUCTOR	4.7MH
IC8004	8-759-701-01	IC	NJM2904M	L6501	1-412-525-31	INDUCTOR	10μH
IC8005	8-759-198-31	IC	UPC1093J-1-T	L6502	1-412-525-31	INDUCTOR	10μH
IC8006	8-759-700-07	IC	NJM2903M	L6503	1-412-525-31	INDUCTOR	10μH
IC8104	8-759-586-17	IC	TL1431CZ-AP	L6505	1-406-665-11	INDUCTOR	100μH

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.




REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
L6506	1-412-525-31	INDUCTOR	10μH	Q5023	8-729-422-27	TRANSISTOR	2SD601A-Q
L6507	1-412-525-31	INDUCTOR	10μH	Q5024	8-729-422-27	TRANSISTOR	2SD601A-Q
L6510	1-412-523-41	INDUCTOR	6.8μH	Q5025	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L6511	1-412-523-41	INDUCTOR	6.8μH	Q5026	8-729-422-27	TRANSISTOR	2SD601A-Q
L6514	1-412-525-31	INDUCTOR	10μH	Q5027	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L6517	1-412-521-31	INDUCTOR	4.7μH	Q5028	8-729-038-83	TRANSISTOR	2SK2251-01-F19
L6518	1-412-521-31	INDUCTOR	4.7μH	Q5030	6-550-168-01	TRANSISTOR	2SC5682-RB
L8002	1-428-950-11	INDUCTOR	125μH	Q5031	8-729-048-49	TRANSISTOR	2SK3262-01MR-F119
L8005	1-406-670-11	INDUCTOR	680μH	Q5035	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q5036	8-729-422-27	TRANSISTOR	2SD601A-Q
<b>PHOTO COUPLER</b>				Q5501	8-729-422-27	TRANSISTOR	2SD601A-Q
PH6501	8-749-016-81	PHOTO COUPLER	PC123Y22	Q5502	8-729-422-27	TRANSISTOR	2SD601A-Q
 PH6502	8-749-016-81	PHOTO COUPLER	PC123Y22	Q5503	8-729-422-27	TRANSISTOR	2SD601A-Q
PH8001	8-749-016-81	PHOTO COUPLER	PC123Y22	Q5504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
PH8003	8-749-016-81	PHOTO COUPLER	PC123Y22	Q5505	8-729-422-27	TRANSISTOR	2SD601A-Q
PH8004	8-749-016-81	PHOTO COUPLER	PC123Y22	Q5506	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q5507	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122
<b>IC LINK</b>				Q5510	8-729-422-27	TRANSISTOR	2SD601A-Q
PS6505	1-576-288-41	IC LINK	10A 90V	Q5512	8-729-422-27	TRANSISTOR	2SD601A-Q
PS6506	1-576-288-41	IC LINK	10A 90V	Q5513	8-729-422-27	TRANSISTOR	2SD601A-Q
PS6550	1-576-288-41	IC LINK	10A 90V	Q5568	8-729-422-27	TRANSISTOR	2SD601A-Q
<b>TRANSISTOR</b>				Q5569	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5001	8-729-422-27	TRANSISTOR	2SD601A-Q	Q6506	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q5002	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q6507	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q5003	8-729-027-97	TRANSISTOR	IRFI9630G-LF	Q6522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5004	8-729-019-57	TRANSISTOR	2SA1208S-TP	Q6527	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5005	8-729-422-27	TRANSISTOR	2SD601A-Q	Q6530	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5006	8-729-422-27	TRANSISTOR	2SD601A-Q	Q6532	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5007	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q8003	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5008	8-729-422-27	TRANSISTOR	2SD601A-Q	Q8004	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5009	8-729-422-27	TRANSISTOR	2SD601A-Q	Q8007	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5010	8-729-422-27	TRANSISTOR	2SD601A-Q	Q8008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5011	8-729-422-27	TRANSISTOR	2SD601A-Q	Q8011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5012	8-729-119-80	TRANSISTOR	2SC2688-LK	Q8013	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q5013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q8014	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q5014	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q8015	8-729-119-80	TRANSISTOR	2SC2688-LK
Q5015	8-729-046-80	TRANSISTOR	2SC4634LS-CB11	Q8016	8-729-045-65	TRANSISTOR	2SA1776TV2Q
Q5018	8-729-422-27	TRANSISTOR	2SD601A-Q	Q8018	8-729-043-95	TRANSISTOR	2SC3840(3)
Q5019	8-729-422-27	TRANSISTOR	2SD601A-Q	Q8019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5020	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q8020	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5021	8-729-422-27	TRANSISTOR	2SD601A-Q	Q8021	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	Q8022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
				Q8023	8-729-422-27	TRANSISTOR	2SD601A-Q
				Q8028	8-729-422-27	TRANSISTOR	2SD601A-Q




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q8034	8-729-422-27	TRANSISTOR	2SD601A-Q			R5047	1-249-421-11	CARBON	2.2K	5%	1/4W
Q8035	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5048	1-216-841-11	METAL CHIP	47K	5%	1/10W
<b>RESISTOR</b>						R5049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5001	1-216-797-11	METAL CHIP	10	5%	1/10W	R5050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5002	1-216-813-11	METAL CHIP	220	5%	1/10W	R5051	1-249-414-11	CARBON	560	5%	1/4W
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5052	1-214-796-00	METAL	1.5	1%	1/2W
R5004	1-208-832-11	METAL CHIP	120K	0.50%	1/10W	R5053	1-215-892-11	METAL OXIDE	1K	5%	2W
R5005	1-216-813-11	METAL CHIP	220	5%	1/10W	R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5007	1-208-832-11	METAL CHIP	120K	0.50%	1/10W	R5060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5008	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5061	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5009	1-208-832-11	METAL CHIP	120K	0.50%	1/10W	R5062	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5010	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5063	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R5011	1-208-832-11	METAL CHIP	120K	0.50%	1/10W	R5064	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R5012	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R5065	1-218-749-11	METAL CHIP	240K	0.50%	1/10W
R5013	1-216-373-11	METAL OXIDE	2.2	5%	2W	R5066	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R5014	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W	R5068	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5015	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5069	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5016	1-208-834-11	METAL CHIP	150K	0.50%	1/10W	R5070	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5017	1-208-834-11	METAL CHIP	150K	0.50%	1/10W	R5071	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R5018	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5072	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5019	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5073	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5020	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R5074	1-260-328-11	CARBON	1K	5%	1/2W
R5023	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5076	1-215-900-11	METAL OXIDE	22K	5%	2W
R5024	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5077	1-215-900-11	METAL OXIDE	22K	5%	2W
R5025	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R5078	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R5026	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5079	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R5027	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5028	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5081	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5029	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R5082	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5030	1-216-864-11	SHORT CHIP				R5083	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R5031	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R5084	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5033	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5085	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5035	1-218-720-11	METAL CHIP	15K	0.50%	1/10W	R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5036	1-216-839-11	METAL CHIP	33K	5%	1/10W	R5087	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5037	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R5090	1-216-369-00	METAL OXIDE	1	5%	2W
R5038	1-216-834-11	METAL CHIP	12K	5%	1/10W	R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5040	1-218-748-11	METAL CHIP	220K	0.50%	1/10W	R5092	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5041	1-249-383-11	CARBON	1.5	5%	1/4W	R5093	1-218-717-11	METAL CHIP	11K	0.50%	1/10W
R5042	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5095	1-249-377-11	CARBON	0.47	5%	1/4W
R5043	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R5096	1-249-377-11	CARBON	0.47	5%	1/4W
R5044	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5097	1-249-380-11	CARBON	0.82	5%	1/4W
R5045	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5098	1-249-379-11	CARBON	0.68	5%	1/4W
R5046	1-214-798-21	METAL	1.8	1%	1/2W	R5101	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
						R5102	1-218-692-11	METAL CHIP	1K	0.50%	1/10W






REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5103	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R5160	1-216-809-11	METAL CHIP	100	5%	1/10W
R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5163	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5105	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5164	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5107	1-249-393-11	CARBON	10	5%	1/4W	R5170	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R5108	1-218-736-11	METAL CHIP	68K	0.50%	1/10W	R5171	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R5109	1-218-728-11	METAL CHIP	33K	0.50%	1/10W	R5172	1-260-288-11	CARBON	0.47	5%	1/2W
R5110	1-249-401-11	CARBON	47	5%	1/4W	R5173	1-260-288-11	CARBON	0.47	5%	1/2W
R5111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R5176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5112	1-216-813-11	METAL CHIP	220	5%	1/10W	R5501	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5113	1-260-107-11	CARBON	4.7K	5%	1/2W	R5502	1-216-864-11	SHORT CHIP			
R5115	1-249-417-11	CARBON	1K	5%	1/4W	R5503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5505	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R5506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5118	1-216-797-11	METAL CHIP	10	5%	1/10W	R5507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5120	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W	R5508	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5124	1-216-809-11	METAL CHIP	100	5%	1/10W	R5510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5126	1-216-809-11	METAL CHIP	100	5%	1/10W	R5513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5127	1-215-892-11	METAL OXIDE	1K	5%	2W	R5518	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5128	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R5519	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5129	1-216-809-11	METAL CHIP	100	5%	1/10W	R5520	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5130	1-216-797-11	METAL CHIP	10	5%	1/10W	R5521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5131	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R5522	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5132	1-215-895-11	METAL OXIDE	3.3K	5%	2W	R5523	1-218-744-11	METAL CHIP	150K	0.50%	1/10W
R5133	1-215-895-11	METAL OXIDE	3.3K	5%	2W	R5524	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5135	1-215-895-11	METAL OXIDE	3.3K	5%	2W	R5525	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5136	1-215-895-11	METAL OXIDE	3.3K	5%	2W	R5526	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R5527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5138	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5529	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5141	1-215-890-11	METAL OXIDE	470	5%	2W	R5530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5142	1-216-365-00	METAL OXIDE	0.47	5%	2W	R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5143	1-216-365-00	METAL OXIDE	0.47	5%	2W	R5533	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5144	1-216-365-00	METAL OXIDE	0.47	5%	2W	R5535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5145	1-215-880-00	METAL OXIDE	10	5%	2W	R5536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5146	1-249-437-11	CARBON	47K	5%	1/4W	R5537	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5147	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R5538	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5148	1-215-865-11	METAL OXIDE	220	5%	1W	R5539	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5540	1-214-800-11	METAL	2.2	1%	1/2W
R5151	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5541	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5153	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5542	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5544	1-218-716-11	METAL CHIP	10K	0.50%	1/10W


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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5545	1-218-732-11	METAL CHIP	47K	0.50%	1/10W	R6502	1-260-131-11	CARBON	470K	5%	1/2W
R5546	1-216-864-11	SHORT CHIP				R6503	1-216-835-11	METAL CHIP	15K	5%	1/10W
R5547	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6505	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R5548	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6507	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5549	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R6508	1-249-393-11	CARBON	10	5%	1/4W
R5551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6510	1-249-393-11	CARBON	10	5%	1/4W
R5553	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R6511	1-260-298-51	CARBON	3.3	5%	1/2W
R5554	1-218-732-11	METAL CHIP	47K	0.50%	1/10W	R6513	1-215-481-00	METAL	330K	1%	1/4W
R5555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6514	1-215-481-00	METAL	330K	1%	1/4W
R5556	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6515	1-260-131-11	CARBON	470K	5%	1/2W
R5557	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	 R6516	1-244-207-11	WIREWOUND	3.3	5%	10W
R5558	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R6517	1-218-715-11	METAL CHIP	9.1K	0.50%	1/10W
R5559	1-218-720-11	METAL CHIP	15K	0.50%	1/10W	R6518	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R5560	1-216-841-11	METAL CHIP	47K	5%	1/10W	R6519	1-216-864-11	SHORT CHIP			
R5561	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R6521	1-260-328-11	CARBON	1K	5%	1/2W
R5562	1-218-734-11	METAL CHIP	56K	0.50%	1/10W	R6524	1-216-864-11	SHORT CHIP			
R5565	1-249-377-11	CARBON	0.47	5%	1/4W	R6525	1-216-817-11	METAL CHIP	470	5%	1/10W
R5566	1-249-401-11	CARBON	47	5%	1/4W	R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R5567	1-216-809-11	METAL CHIP	100	5%	1/10W	R6527	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5568	1-216-853-11	METAL CHIP	470K	5%	1/10W	R6528	1-216-809-11	METAL CHIP	100	5%	1/10W
R5569	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6529	1-249-393-11	CARBON	10	5%	1/4W
R5570	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5571	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6531	1-249-393-11	CARBON	10	5%	1/4W
R5572	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5576	1-249-395-11	CARBON	15	5%	1/4W	R6533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5578	1-218-730-11	METAL CHIP	39K	0.50%	1/10W	R6535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5579	1-218-732-11	METAL CHIP	47K	0.50%	1/10W	R6536	1-249-417-11	CARBON	1K	5%	1/4W
R5580	1-216-837-11	METAL CHIP	22K	5%	1/10W	R6537	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5581	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6538	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5582	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W	R6542	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5589	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6544	1-216-864-11	SHORT CHIP			
R5590	1-218-722-11	METAL CHIP	18K	0.50%	1/10W	R6545	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5591	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R6547	1-216-864-11	SHORT CHIP			
R5592	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R6548	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R5593	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R6556	1-243-979-71	METAL OXIDE	0.1	5%	2W
R5594	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6557	1-243-979-71	METAL OXIDE	0.1	5%	2W
R5597	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	 R6590	1-249-415-11	CARBON	680	5%	1/4W
R5603	1-216-857-11	METAL CHIP	1M	5%	1/10W	R6593	1-249-405-11	CARBON	100	5%	1/4W
R5604	1-216-857-11	METAL CHIP	1M	5%	1/10W	R6595	1-249-377-11	CARBON	0.47	5%	1/4W
R5711	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R6602	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5712	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R6605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6501	1-218-662-11	METAL CHIP	56	0.50%	1/10W	R6646	1-215-481-00	METAL	330K	1%	1/4W


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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8001	1-216-809-11	METAL CHIP	100	5%	1/10W	R8056	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8057	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R8004	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R8058	1-249-393-11	CARBON	10	5%	1/4W
R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8059	1-216-864-11	SHORT CHIP			
R8006	1-219-512-11	METAL	2.2M	5%	1/2W	R8060	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R8007	1-219-512-11	METAL	2.2M	5%	1/2W	R8061	1-249-393-11	CARBON	10	5%	1/4W
R8010	1-216-864-11	SHORT CHIP				R8062	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W	R8063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8012	1-249-419-11	CARBON	1.5K	5%	1/4W	R8066	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8069	1-249-425-11	CARBON	4.7K	5%	1/4W
R8014	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R8070	1-243-979-71	METAL OXIDE	0.1	5%	2W
R8015	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R8072	1-249-377-11	CARBON	0.47	5%	1/4W
R8016	1-247-843-11	CARBON	3.3K	5%	1/4W	R8076	1-240-931-91	METAL	330	5%	0.5W
R8017	1-218-703-11	METAL CHIP	3K	0.50%	1/10W	R8077	1-216-864-11	SHORT CHIP			
 R8019	1-218-742-11	METAL CHIP	120K	0.50%	1/10W	 R8078	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8079	1-249-431-11	CARBON	15K	5%	1/4W
R8022	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8080	1-249-401-11	CARBON	47	5%	1/4W
R8024	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8082	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W	R8085	1-219-749-91	METAL	10K	5%	1/2W
R8026	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W	R8086	1-219-751-91	METAL	47K	5%	1/2W
R8027	1-218-736-11	METAL CHIP	68K	0.50%	1/10W	R8087	1-216-864-11	SHORT CHIP			
R8028	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R8088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8029	1-218-736-11	METAL CHIP	68K	0.50%	1/10W	R8089	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8030	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R8090	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8031	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R8091	1-215-485-00	METAL	470K	1%	1/4W
R8032	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8093	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R8033	1-216-821-11	METAL CHIP	1K	5%	1/10W	R8095	1-215-485-00	METAL	470K	1%	1/4W
 R8035	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W	R8096	1-216-864-11	SHORT CHIP			
 R8036	1-215-419-00	METAL	820	1%	1/4W	R8097	1-216-797-11	METAL CHIP	10	5%	1/10W
 R8037	1-215-447-00	METAL	12K	1%	1/4W	R8101	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
 R8038	1-215-447-00	METAL	12K	1%	1/4W	R8102	1-249-433-11	CARBON	22K	5%	1/4W
 R8039	1-215-447-00	METAL	12K	1%	1/4W	R8103	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
 R8040	1-215-443-00	METAL	8.2K	1%	1/4W	R8104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8041	1-216-864-11	SHORT CHIP				R8105	1-216-809-11	METAL CHIP	100	5%	1/10W
 R8043	1-215-447-00	METAL	12K	1%	1/4W	R8106	1-249-377-11	CARBON	0.47	5%	1/4W
 R8046	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W	R8108	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8047	1-216-341-11	METAL OXIDE	0.22	5%	1W	R8109	1-215-918-00	METAL OXIDE	1.5K	5%	3W
R8049	1-218-668-11	METAL CHIP	100	0.50%	1/10W	R8110	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8050	1-218-656-11	METAL CHIP	33	0.50%	1/10W	R8111	1-215-918-00	METAL OXIDE	1.5K	5%	3W
R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W	R8112	1-216-845-11	METAL CHIP	100K	5%	1/10W
 R8052	1-218-720-11	METAL CHIP	15K	0.50%	1/10W	R8113	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8053	1-215-481-00	METAL	330K	1%	1/4W	R8114	1-215-918-00	METAL OXIDE	1.5K	5%	3W
R8054	1-215-481-00	METAL	330K	1%	1/4W	R8115	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8055	1-215-480-00	METAL	300K	1%	1/4W	R8116	1-215-918-00	METAL OXIDE	1.5K	5%	3W

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A component identified by this  symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8117	1-216-845-11	METAL CHIP	100K	5%	1/10W	 T8001	1-453-387-21	FBT ASSY NX-6020//M3J4			
R8118	1-216-839-11	METAL CHIP	33K	5%	1/10W	T8004	1-439-991-11	DYNAMIC FOCUS TRANSFORMER(DFT)			
R8119	1-215-918-00	METAL OXIDE	1.5K	5%	3W						
R8123	1-216-809-11	METAL CHIP	100	5%	1/10W						
R8124	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R8125	1-216-797-11	METAL CHIP	10	5%	1/10W						
R8126	1-216-797-11	METAL CHIP	10	5%	1/10W						
R8135	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R8136	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R8137	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R8138	1-216-857-11	METAL CHIP	1M	5%	1/10W						
R8144	1-216-849-11	METAL CHIP	220K	5%	1/10W						
R8145	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R8146	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R8150	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R8151	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R8158	1-216-809-11	METAL CHIP	100	5%	1/10W						
R8159	1-216-835-11	METAL CHIP	15K	5%	1/10W						
R8160	1-216-853-11	METAL CHIP	470K	5%	1/10W						
R8161	1-216-833-11	METAL CHIP	10K	5%	1/10W						
 R8165	1-218-742-11	METAL CHIP	120K	0.50%	1/10W						
R8200	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R8202	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R8203	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R8204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R8206	1-216-817-11	METAL CHIP	470	5%	1/10W						
<b>VARIABLE RESISTOR</b>											
  RV8002	1-225-627-91	RES, VAR, ADJ, CERMET	2K								
<b>RELAY</b>											
 RY6501	1-755-395-11	RELAY (AC POWER)									
 RY6502	1-755-389-11	RELAY (AC POWER)									
<b>SPARK GAP</b>											
SG8002	1-517-499-21	GAP, SPARK									
<b>TRANSFORMER</b>											
T5001	1-437-523-41	TRANSFORMER, HORIZONTAL OUTPUT									
T5002	1-435-636-31	TRANSFORMER, HORIZONTAL DRIVE									
 T6502	1-437-696-31	TRANSFORMER, CONVERTER									



#### THERMISTOR


TH5002 1-807-796-11 THERMISTOR




\* **A-1400-562-A CX BOARD, MOUNTED**  
4-382-854-11 SCREW (M3X10), P, SW (+)


#### CAPACITOR


C9004	1-115-350-51	CERAMIC	0.0047μF		2KV
C9009	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9010	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9011	1-161-830-00	CERAMIC	0.0047μF		500V
C9012	1-161-830-00	CERAMIC	0.0047μF		500V
C9013	1-163-035-00	CERAMIC CHIP	0.047μF		50V
C9014	1-161-830-00	CERAMIC	0.0047μF		500V
C9015	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9018	1-107-961-91	ELECT	10μF	20%	250V
C9019	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C9020	1-107-961-91	ELECT	10μF	20%	250V
C9021	1-107-961-91	ELECT	10μF	20%	250V
C9022	1-101-006-00	CERAMIC	0.047μF		50V
C9023	1-101-006-00	CERAMIC	0.047μF		50V
C9024	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C9025	1-104-653-11	ELECT	220μF	20%	16V
C9026	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C9027	1-101-006-00	CERAMIC	0.047μF		50V
C9031	1-115-349-51	CERAMIC	0.01μF		2KV
C9032	1-162-116-00	CERAMIC	680pF	10%	2KV
C9033	1-107-662-11	ELECT	22μF	20%	350V
C9036	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C9042	1-128-527-11	ELECT	330μF	20%	25V
C9044	1-126-934-11	ELECT	220μF	20%	16V
C9045	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C9046	1-126-933-11	ELECT	100μF	20%	16V
C9048	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C9049	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C9050	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C9051	1-165-319-11	CERAMIC CHIP	0.1μF		50V


NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.




REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<b>CONNECTOR</b>							
* CN9001	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P	Q9009	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
* CN9002	1-564-507-11	PLUG, CONNECTOR	4P	Q9010	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
CN9003	1-695-915-11	TAB (CONTACT)		Q9011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
CN9004	1-695-915-11	TAB (CONTACT)		Q9013	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
CN9009	1-785-879-11	CONNECTOR, ONE TOUCH		Q9014	8-729-823-81	TRANSISTOR	2SC4632LS-CB7
				Q9015	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
<b>DIODE</b>				<b>RESISTOR</b>			
D9005	8-719-404-50	DIODE	MA111-TX	R9001	1-216-633-11	METAL CHIP	180 0.50% 1/10W
D9006	8-719-051-85	DIODE	HSS83TD	R9006	1-216-073-91	RES-CHIP	10K 5% 1/10W
D9007	8-719-051-85	DIODE	HSS83TD	R9007	1-208-783-11	METAL CHIP	1.1K 0.50% 1/10W
D9008	8-719-051-85	DIODE	HSS83TD	R9012	1-216-295-91	SHORT CHIP	
D9009	8-719-908-03	DIODE	GP08D	R9013	1-216-049-11	RES-CHIP	1K 5% 1/10W
D9010	8-719-110-17	DIODE	RD10ESB2	R9014	1-216-033-00	RES-CHIP	220 5% 1/10W
				R9015	1-249-409-11	CARBON	220 5% 1/4W
<b>IC</b>				R9016	1-216-033-00	RES-CHIP	220 5% 1/10W
IC9001	8-759-680-01	IC	TDA6120Q/N2/S1	R9018	1-216-633-11	METAL CHIP	180 0.50% 1/10W
IC9002	8-759-680-01	IC	TDA6120Q/N2/S1	R9019	1-216-633-11	METAL CHIP	180 0.50% 1/10W
IC9003	8-759-680-01	IC	TDA6120Q/N2/S1	R9020	1-216-025-11	RES-CHIP	100 5% 1/10W
				R9021	1-216-103-00	RES-CHIP	180K 5% 1/10W
<b>JACK</b>				R9022	1-216-073-91	RES-CHIP	10K 5% 1/10W
 J9001	1-451-544-11	SOCKET, CRT		R9023	1-216-103-00	RES-CHIP	180K 5% 1/10W
				R9025	1-216-025-11	RES-CHIP	100 5% 1/10W
<b>COIL</b>				R9026	1-208-783-11	METAL CHIP	1.1K 0.50% 1/10W
L9002	1-408-592-11	INDUCTOR	1.2μH	R9027	1-216-103-00	RES-CHIP	180K 5% 1/10W
L9003	1-408-592-11	INDUCTOR	1.2μH	R9028	1-216-103-00	RES-CHIP	180K 5% 1/10W
L9004	1-408-592-11	INDUCTOR	1.2μH	R9029	1-216-073-91	RES-CHIP	10K 5% 1/10W
L9005	1-406-666-21	INDUCTOR	150μH	R9030	1-216-073-91	RES-CHIP	10K 5% 1/10W
L9006	1-412-526-11	INDUCTOR	12μH	R9031	1-208-783-11	METAL CHIP	1.1K 0.50% 1/10W
<b>NEON LAMP</b>				R9032	1-216-103-00	RES-CHIP	180K 5% 1/10W
NL9003	1-519-421-11	GAP, DISCHARGE		R9033	1-215-435-00	METAL	3.9K 1% 1/4W
<b>TRANSISTOR</b>				R9034	1-215-428-00	METAL	2K 1% 1/4W
Q9001	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX	R9035	1-216-103-00	RES-CHIP	180K 5% 1/10W
Q9003	8-729-422-27	TRANSISTOR	2SD601A-Q	R9036	1-216-083-00	RES-CHIP	27K 5% 1/10W
Q9004	8-729-422-27	TRANSISTOR	2SD601A-Q	R9037	1-215-926-00	METAL OXIDE	33K 5% 3W
Q9005	8-729-422-27	TRANSISTOR	2SD601A-Q	R9039	1-216-025-11	RES-CHIP	100 5% 1/10W
Q9007	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16	R9041	1-216-083-00	RES-CHIP	27K 5% 1/10W
				R9042	1-216-083-00	RES-CHIP	27K 5% 1/10W
				R9043	1-215-926-00	METAL OXIDE	33K 5% 3W
				R9044	1-215-926-00	METAL OXIDE	33K 5% 3W
				R9047	1-219-744-11	METAL	220 5% 1/2W
				R9048	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R9049	1-216-049-11	RES-CHIP	1K 5% 1/10W

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.


NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9051	1-219-744-11	METAL	220	5%	1/2W
R9052	1-219-744-11	METAL	220	5%	1/2W
R9056	1-219-743-11	METAL	100	5%	1/2W
R9057	1-219-510-11	METAL	470K	5%	1/2W
R9059	1-219-746-11	METAL	1K	5%	1/2W
R9061	1-219-743-11	METAL	100	5%	1/2W
R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9063	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9070	1-249-403-11	CARBON	68	5%	1/4W
R9071	1-247-807-31	CARBON	100	5%	1/4W
R9072	1-216-025-11	RES-CHIP	100	5%	1/10W
R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9074	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R9077	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9089	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W
R9091	1-215-429-00	METAL	2.2K	1%	1/4W
R9092	1-216-295-91	SHORT CHIP			
R9094	1-216-295-91	SHORT CHIP			
R9095	1-216-295-91	SHORT CHIP			
<u>VARIABLE RESISTOR</u>					
 RV9001	1-241-714-11	RES, ADJ, METAL FILM	110M		
<div>HC</div>					
* A-1400-709-A HC BOARD, MOUNTED					
<u>CAPACITOR</u>					
C1002	1-126-964-11	ELECT	10μF	20%	50V
<u>CONNECTOR</u>					
* CN1000	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P		
<u>DIODE</u>					
D1004	8-719-070-80	DIODE	LNK0120022G		
D1005	8-719-070-80	DIODE	LNK0120022G		
<u>IC</u>					
IC1000	8-742-212-20	HYB IC	SBX3081-71		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
<u>RESISTOR</u>					
R1000	1-249-385-11	CARBON	2.2	5%	1/4W
R1002	1-249-413-11	CARBON	470	5%	1/4W
R1003	1-249-415-11	CARBON	680	5%	1/4W
R1005	1-249-417-11	CARBON	1K	5%	1/4W
R1006	1-249-421-11	CARBON	2.2K	5%	1/4W
R1015	1-249-433-11	CARBON	22K	5%	1/4W
R1016	1-249-409-11	CARBON	220	5%	1/4W
R1017	1-249-409-11	CARBON	220	5%	1/4W
R1019	1-247-807-31	CARBON	100	5%	1/4W
<u>SWITCH</u>					
S1000	1-692-431-21	SWITCH, TACTILE			
S1001	1-692-431-21	SWITCH, TACTILE			
S1003	1-571-032-41	SWITCH, PUSH (1 KEY)			
S1004	1-692-431-21	SWITCH, TACTILE			
S1005	1-692-431-21	SWITCH, TACTILE			
S1006	1-692-431-21	SWITCH, TACTILE			
<div>HB</div>					
* A-1405-868-A HB(VAR) BOARD, MOUNTED					
<u>CAPACITOR</u>					
C1100	1-126-960-11	ELECT	1μF	20%	50V
C1101	1-126-960-11	ELECT	1μF	20%	50V
<u>CONNECTOR</u>					
* CN1100	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P		
<u>DIODE</u>					
D1100	8-719-977-28	DIODE	DTZ10B		
D1101	8-719-977-28	DIODE	DTZ10B		
D1103	8-719-977-28	DIODE	DTZ10B		
<u>FILTER</u>					
FL1103	1-409-755-11	FERRITE	0μH		
FL1104	1-409-755-11	FERRITE	0μH		



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
<b><u>JACK</u></b>						C9111	1-126-964-11	ELECT	10μF	20%	50V	
J1100	1-770-053-12	TERMINAL BLOCK, S(LIGHT ANGLE)				C9112	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	
<b><u>CHIP CONDUCTOR</u></b>						C9113	1-137-528-11	MYLAR	0.1μF	10%	250V	
JR1100	1-216-864-11	SHORT CHIP				C9114	1-107-636-11	ELECT	10μF	20%	160V	
JR1101	1-216-864-11	SHORT CHIP				C9115	1-137-528-11	MYLAR	0.1μF	10%	250V	
JR1102	1-216-864-11	SHORT CHIP				C9116	1-164-156-11	CERAMIC CHIP	0.1μF		25V	
JR1103	1-216-864-11	SHORT CHIP				C9117	1-117-450-11	MYLAR	0.47μF	10%	250V	
JR1104	1-216-864-11	SHORT CHIP				C9118	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	
JR1105	1-216-864-11	SHORT CHIP				C9120	1-130-495-00	MYLAR	0.1μF	5%	50V	
JR1106	1-216-864-11	SHORT CHIP				C9121	1-126-947-11	ELECT	47μF	20%	35V	
JR1107	1-216-864-11	SHORT CHIP				C9125	1-130-495-00	MYLAR	0.1μF	5%	50V	
<b><u>RESISTOR</u></b>						C9126	1-126-947-11	ELECT	47μF	20%	35V	
R1100	1-216-853-11	METAL CHIP	470K	5%	1/10W	C9127	1-130-495-00	MYLAR	0.1μF	5%	50V	
R1101	1-216-853-11	METAL CHIP	470K	5%	1/10W	C9128	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	
R1102	1-218-665-11	METAL CHIP	75	0.50%	1/10W	C9144	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	
R1103	1-218-665-11	METAL CHIP	75	0.50%	1/10W	<b><u>CONNECTOR</u></b>						
R1104	1-216-864-11	SHORT CHIP				* CN9100	1-564-515-11	PLUG, CONNECTOR		12P		
R1105	1-216-864-11	SHORT CHIP				* CN9101	1-564-506-11	PLUG, CONNECTOR		3P		
R1106	1-216-821-11	METAL CHIP	1K	5%	1/10W	* CN9102	1-564-508-11	PLUG, CONNECTOR		5P		
R1107	1-218-665-11	METAL CHIP	75	0.50%	1/10W	* CN9103	1-770-747-11	CONNECTOR, BOARD TO BOARD		12P		
R1108	1-216-864-11	SHORT CHIP				* CN9104	1-564-506-11	PLUG, CONNECTOR		3P		
<b><u>VARISTOR</u></b>						* CN9105	1-564-506-11	PLUG, CONNECTOR		3P		
VD1102	1-803-974-21	VARISTOR, CHIP	(1608)				<b><u>FERRITE BEAD</u></b>					
						FB9100	1-410-397-21	FERRITE	1.1μH			
<b>A-1405-827-A</b>						FB9101	1-410-397-21	FERRITE	1.1μH			
<b>4-382-854-01</b>						<b><u>IC</u></b>						
<b>WX(VAR) BOARD, MOUNTED</b>						IC9100	8-759-822-38	IC		LA6510		
<b>SCREW (M3X8), P, SW (+)</b>						<b><u>COIL</u></b>						
<b><u>CAPACITOR</u></b>						L9100	1-412-525-31	INDUCTOR	10μH			
C9101	1-104-999-11	MYLAR	0.1μF	5%	200V	L9104	1-406-979-11	INDUCTOR	220μH			
C9102	1-130-495-00	MYLAR	0.1μF	5%	50V	L9105	1-412-536-31	INDUCTOR	82μH			
C9104	1-126-933-11	ELECT	100μF	20%	16V	<b><u>TRANSISTOR</u></b>						
C9105	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	Q9100	8-729-422-27	TRANSISTOR		2SD601A-Q		
C9106	1-164-156-11	CERAMIC CHIP	0.1μF		25V	Q9101	8-729-422-27	TRANSISTOR		2SD601A-Q		
C9108	1-107-662-11	ELECT	22μF	20%	350V	Q9102	8-729-424-02	TRANSISTOR		2SB709A-QRS-TX		
C9109	1-161-830-00	CERAMIC	0.0047μF		500V	Q9103	8-729-422-27	TRANSISTOR		2SD601A-Q		
C9110	1-164-156-11	CERAMIC CHIP	0.1μF		25V							



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q9104	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R9121	1-216-848-11	METAL CHIP	180K	5%	1/10W
Q9105	8-729-422-27	TRANSISTOR	2SD601A-Q			R9122	1-216-847-11	METAL CHIP	150K	5%	1/10W
Q9106	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R9123	1-216-848-11	METAL CHIP	180K	5%	1/10W
Q9107	8-729-422-27	TRANSISTOR	2SD601A-Q			R9124	1-216-847-11	METAL CHIP	150K	5%	1/10W
Q9108	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R9125	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
Q9109	8-729-422-27	TRANSISTOR	2SD601A-Q			R9126	1-216-805-11	METAL CHIP	47	5%	1/10W
Q9110	8-729-045-04	TRANSISTOR	2SC5511			R9127	1-216-805-11	METAL CHIP	47	5%	1/10W
Q9111	8-729-045-05	TRANSISTOR	2SA2005			R9128	1-215-888-00	METAL OXIDE	220	5%	2W
Q9121	8-729-422-27	TRANSISTOR	2SD601A-Q			R9129	1-216-864-11	SHORT CHIP			
Q9122	8-729-422-27	TRANSISTOR	2SD601A-Q								
						R9130	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
Q9123	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R9131	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
Q9124	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R9132	1-218-713-11	METAL CHIP	7.5K	0.50%	1/10W
						R9133	1-249-391-11	CARBON	6.8	5%	1/4W
						R9134	1-249-383-11	CARBON	1.5	5%	1/4W
<b><u>RESISTOR</u></b>											
R9101	1-216-805-11	METAL CHIP	47	5%	1/10W	R9135	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9102	1-260-322-11	CARBON	330	5%	1/2W	R9138	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R9103	1-216-819-11	METAL CHIP	680	5%	1/10W	R9139	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9104	1-216-820-11	METAL CHIP	820	5%	1/10W	R9141	1-214-657-11	METAL	1	1%	1/4W
R9105	1-216-837-11	METAL CHIP	22K	5%	1/10W	R9142	1-214-657-11	METAL	1	1%	1/4W
R9106	1-218-715-11	METAL CHIP	9.1K	0.50%	1/10W	R9143	1-216-429-00	METAL OXIDE	270	5%	1W
R9107	1-216-809-11	METAL CHIP	100	5%	1/10W	R9144	1-215-867-00	METAL OXIDE	470	5%	1W
R9108	1-216-817-11	METAL CHIP	470	5%	1/10W	R9187	1-249-389-11	CARBON	4.7	5%	1/4W
R9109	1-216-817-11	METAL CHIP	470	5%	1/10W	R9188	1-249-389-11	CARBON	4.7	5%	1/4W
R9110	1-216-805-11	METAL CHIP	47	5%	1/10W	R9189	1-249-389-11	CARBON	4.7	5%	1/4W
						R9190	1-249-389-11	CARBON	4.7	5%	1/4W
R9111	1-216-805-11	METAL CHIP	47	5%	1/10W	<b><u>ACCESSORIES AND PACKING</u></b>					
R9112	1-249-389-11	CARBON	4.7	5%	1/4W						
R9113	1-249-389-11	CARBON	4.7	5%	1/4W						
R9114	1-249-389-11	CARBON	4.7	5%	1/4W	*	4-066-845-11	BAG, PROTECTION			
R9115	1-249-389-11	CARBON	4.7	5%	1/4W		4-094-066-21	MANUAL, INSTRUCTION			
							4-094-066-31	MANUAL, INSTRUCTION			
R9116	1-249-389-11	CARBON	4.7	5%	1/4W		4-095-895-01	CARTON, INDIVIDUAL			
R9117	1-249-389-11	CARBON	4.7	5%	1/4W	*	4-095-897-01	CUSHION, LOWER			
R9118	1-249-389-11	CARBON	4.7	5%	1/4W	*	4-095-898-01	CUSHION, UPPER			
R9119	1-249-389-11	CARBON	4.7	5%	1/4W						
R9120	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W	<b><u>REMOTE COMMANDER</u></b>					
						1-477-936-11	REMOTE COMMANDER RM-Y191				
						4-081-888-01	BATTERY COVER for RM-Y191				

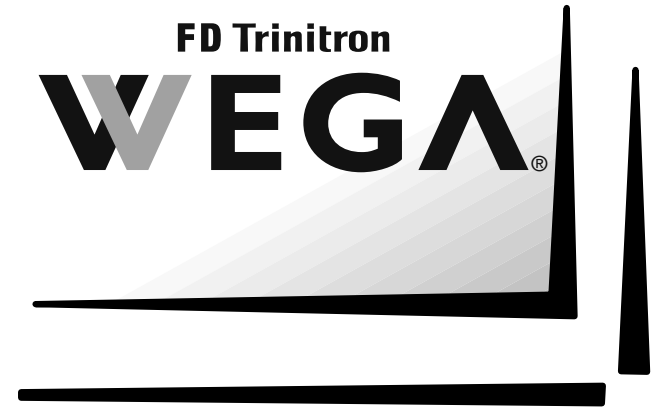
*In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Nita Wardlaw at [nita.wardlaw@am.sony.com](mailto:nita.wardlaw@am.sony.com).*

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4-094-066-21



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**WEGA®**



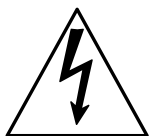
## Operating Instructions

© 2003 Sony Corporation



## WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

## CAUTION

When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same program can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the result of misuse.

## Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

## Note on Cleaning the TV

Clean the TV with a soft, dry cloth. Never use strong solvents such as thinner or benzene, which might damage the finish of the cabinet.

## Note to CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

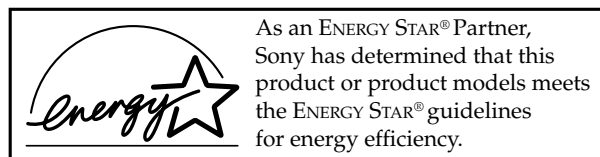
## NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antennas.
  - ☐ Increase the separation between the equipment and receiver.
  - ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - ☐ Consult the dealer or an experienced radio/TV technician for help.
- You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

## Installing

- ☐ To prevent internal heat buildup, do not block the ventilation openings.
- ☐ Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ☐ The AC power cord is attached to the rear of the TV with hooks. Do not attempt to remove the cord from these hooks. Doing so could cause damage to the TV.



ENERGY STAR® is a U.S. registered mark.

## Owner's Record

The model and serial numbers are provided on the front of this instruction manual and at the rear of the TV. Refer to them whenever you call upon your Sony dealer regarding this product.

## Trademark Information

TruSurround and the (●)\* symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

Wega, FD Trinitron, Steady Sound, Digital Reality Creation, Caption Vision, CineMotion, Memory Stick, and Twin View are registered trademarks of Sony Corporation. ClearEdge VM and HD Detailer are trademarks of Sony Corporation.

# IMPORTANT SAFEGUARDS

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set, or described in the operating instructions or service manual.

## WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use, and servicing of the set.

### Use

#### Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.



#### Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

##### For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



##### Alternate Warning

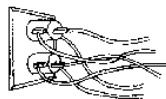
##### For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



#### Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the set off when it is not to be used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.



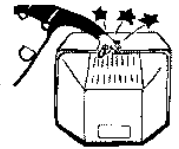
Do not disconnect the antenna or the power cord during a heavy storm. Lightning may strike while you are holding the cable or cord, causing serious injury. Turn off your TV and wait for the weather to improve.

#### Memory Stick

To protect small children from injury from Memory Stick Media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.

#### Object and Liquid Entry

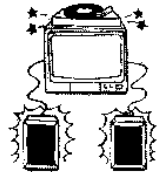
Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



#### Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.

Do not place any objects, especially heavy objects, on top of the set. The object may fall from the set, causing injury.

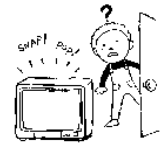


#### Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.



If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.

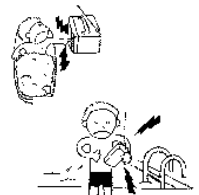


#### Installation

Always use two or more people to lift or move the set. The set is heavy and the bottom surface is flat. Serious injury can result from trying to move the set by yourself alone, or from unsteady handling. Install the set on a stable, level surface.

#### Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



#### Accessories

Do not place the set on an unstable cart, stand, tripod, bracket, table or shelf. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of TV. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



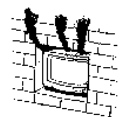
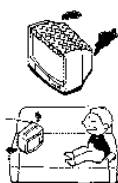
Disconnect all cables and cords from the set before attempting to move the set.

Do not allow children or pets to climb up onto, or push against, the set. The set may fall, causing serious injury.

## Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- ☐ Never cover the slots and openings with a cloth or other materials.
- ☐ Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.
- ☐ Never place the set in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
- ☐ Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



## Power Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.



## Antennas

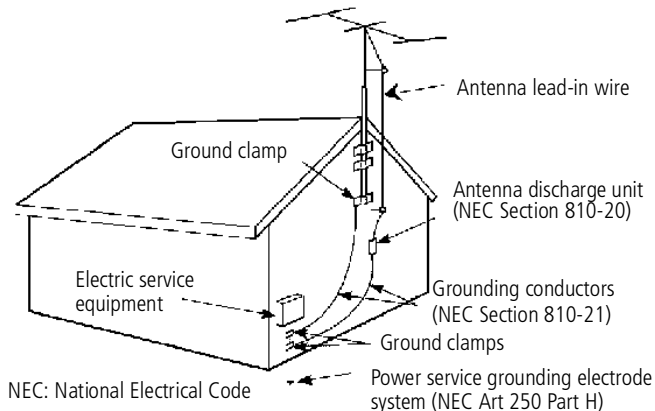
### Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

**WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.**

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provide information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

### Antenna Grounding According to the National Electrical Code, ANSI/NFPA 70



NEC: National Electrical Code


## Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power line surges.

## Service

### Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- ☐ When the power cord or plug is damaged or frayed.
- ☐ If liquid has been spilled into the set or objects have fallen into the product.
- ☐ If the set has been exposed to rain or water.
- ☐ If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- ☐ If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
- ☐ When the set exhibits a distinct change in performance, it indicates a need for service.



## Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



## Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.



Unauthorized substitutions may result in fire, electric shock or other hazards.

## Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.



# Setting Up the TV

## Overview

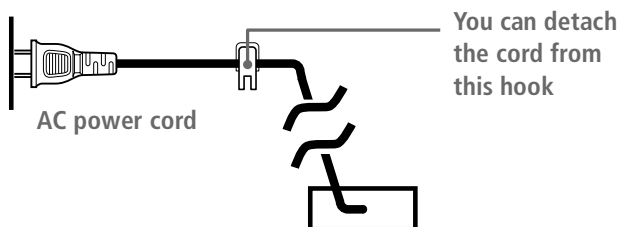
This chapter includes illustrated instructions for setting up your TV.

Topic	Page(s)
TV Controls and Connectors	10-13
Basic Connections: Connecting a Cable or Antenna	14-20
Connecting Optional Equipment	
VCR and Cable	22
VCR and Cable Box	24
Two VCRs for Tape Editing	26
Satellite Receiver	28
Satellite Receiver and VCR	30
DVD Player with Component Video Connectors	32
DVD Player with S VIDEO and Audio Connectors	34
Camcorder	35
Audio Receiver	36
Using the CONTROL S Feature	37
Setting Up the Channel List	38

## About the AC Power Cord

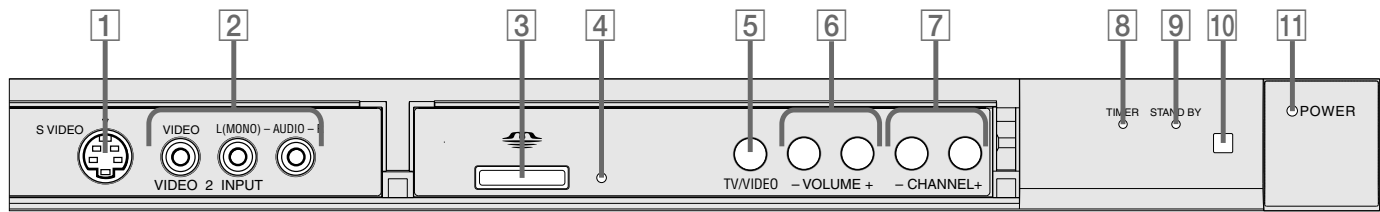
The AC power cord is attached to the rear of the TV with a hook. Use caution when removing the AC plug from its holder. Gently slide the plug upward to remove it from the hook. Once removed, the AC power plug should automatically disengage from its stored location.

 **Do not plug in the AC power cord until you have made all other connections.**



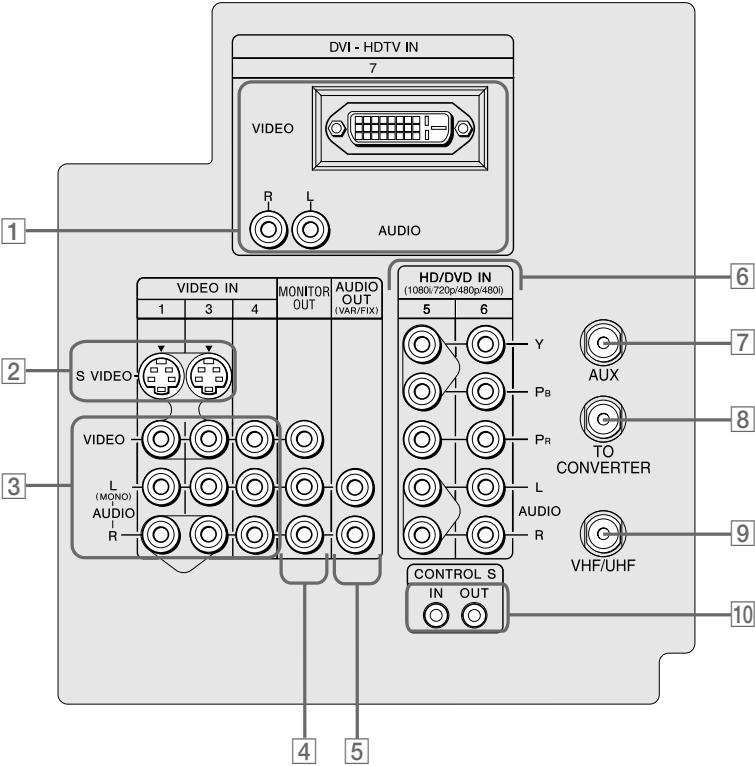
# TV Controls and Connectors

## Front Panel



Item	Description
1 S VIDEO VIDEO 2 INPUT	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (2).
2 VIDEO/L(MONO)-AUDIO-R VIDEO 2 INPUT	Connects to the composite A/V output jacks on your camcorder or other video equipment.
3 MEMORY STICK	Memory Stick insertion slot. For details, see “Using the Memory Stick Picture Viewer” on page 54.
4 MEMORY STICK LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
5 TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV’s video inputs.
6 -VOLUME +	Press to adjust the volume.
7 -CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
8 TIMER LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 79.
9 STAND BY LED	Blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service (see “Contacting Sony” on page 84).
10 Infrared Receiver (IR)	Receives IR signals from the TV’s remote control.
11 POWER	Press to turn on and off the TV.

Rear Panel



Jack	Description
1 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV.
2 S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video (3) or VHF/UHF (9) connections.
3 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. This video connection provides better picture quality than the VHF/UHF (9) connection.
4 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with 480p, 720p, or 1080i when the input is set to VIDEO 5 or 6).
5 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
6 HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, Pb, Pr) and audio (L/R) jacks. Component video provides better picture quality than 2, 3, or 9).
7 AUX	Auxiliary RF input that connects to your antenna, CATV cable, or cable box output jack. This is convenient if you are using two VHF/UHF sources (antenna, CATV cable, or cable box). For details, see pages 16 to 19.
8 TO CONVERTER	Connects to your cable box input jack. This VHF/UHF output jack lets you set up your TV to switch between scrambled channels (coming through a cable box) and unscrambled cable channels. Use this jack instead of a splitter to get better picture quality when you need to switch between scrambled and unscrambled cable channels. For details, see pages 18 to 19.
9 VHF/UHF	Primary RF input that connects to your VHF/UHF antenna or cable.
10 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.

\* High-bandwidth Digital Content Protection

## Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

<i>If You Are Connecting</i>	<i>See Page</i>
<b>Cable or Antenna Only</b>	15
<input type="checkbox"/> No cable box or VCR	
<b>Cable and Antenna Only</b>	16
<input type="checkbox"/> No cable box or VCR	
<b>Cable Box and Cable Only</b>	18
<input type="checkbox"/> Cable box unscrambles only some channels (usually premium channels)	
<input type="checkbox"/> No VCR	
<b>Cable Box Only</b>	20
<input type="checkbox"/> Cable box unscrambles all channels	
<input type="checkbox"/> No VCR	

**If you are connecting a VCR**

- ☐ See the connections described on pages 22 and 24.

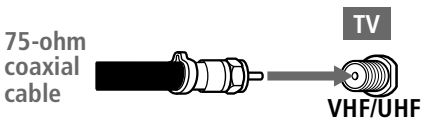
## Cable or Antenna Only

For best results, use one of the following connections if you are connecting a cable or an antenna and you:

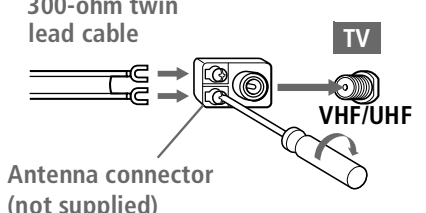
- ❑ Do not need a cable box to unscramble channels. (If you have a cable box, see pages 18-20.)
- ❑ Do not intend to connect a VCR. (If you have a VCR, see pages 22 and 24.)

The connection you choose depends on the cable type you have in your home, as described below.

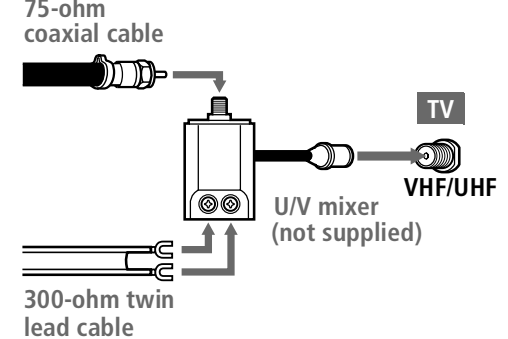
### 75-ohm coaxial cable (usually found in newer homes)

Cable Type	Connect As Shown
VHF Only or combined VHF/UHF or Cable	 <p>75-ohm coaxial cable</p> <p>TV</p> <p>VHF/UHF</p>

### 300-ohm twin lead cable (usually found in older homes)

Cable Type	Connect As Shown
VHF Only or UHF Only or combined VHF/UHF	 <p>300-ohm twin lead cable</p> <p>TV</p> <p>VHF/UHF</p> <p>Antenna connector (not supplied)</p>

### 75-ohm coaxial and 300-ohm twin lead cable (found in some homes)

Cable Type	Connect As Shown
VHF and UHF	 <p>75-ohm coaxial cable</p> <p>TV</p> <p>VHF/UHF</p> <p>U/V mixer (not supplied)</p> <p>300-ohm twin lead cable</p>

# Cable and Antenna Only

- For best results, use this connection if you:
- Have a cable and an antenna.  
(This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable company.)
  - Do not have a cable box or VCR. (If you have a cable box, see pages 18 to 20. If you have a VCR, see pages 22 and 24.)

Cable Type	Connect As Shown
Cable TV (CATV) and Antenna	<div> <p>CATV cable</p> <p>(No connection to TO CONVERTER)</p> <p>Antenna cable</p> <p>TV</p> <p>AUX</p> <p>TO CONVERTER</p> <p>VHF/UHF</p> </div>

*About Using This Connection with Dual Picture (Twin View, etc.) Features*

With this connection, you cannot view CATV channels in the right dual picture window.

## Notes on Using This Connection

<i>To Do This ...</i>	<i>Do This ...</i>
Switch the TV's input between the cable and antenna	Press ANT to switch back and forth between the TV's VHF/UHF and AUX inputs.
Receive channels using an antenna, instead of the cable	<ol style="list-style-type: none"><li>1 Press ANT to switch to the AUX input.</li><li>2 Set the Cable option to Off. For details, see "Selecting Channel Options" on page 72.</li><li>3 Run the Auto Setup program, as described in "Using Auto Setup" on page 38.</li></ol>

## Cable Box and Cable Only



**DIGITAL CABLE BOX USERS:** Do not use this connection. The TO CONVERTER jack is not compatible with digital cable boxes.

For best results, use this connection if:

- ☐ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- ☐ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:

- ☐ Use the TV remote control to change channels coming through the cable box to the TV's AUX input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 43.)
- ☐ Use the TV remote control to change channels coming directly into the TV's VHF/UHF input. (The TV's tuner provides a better signal than the cable box.)

### *About Using This Connection with Dual Picture (Twin View, etc.) Features*

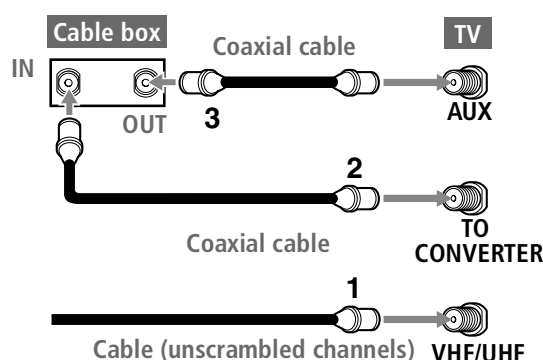
With this connection, you can use all the dual picture features for unscrambled channels coming directly into the TV's VHF/UHF input jack.

However, you can use only some of the dual picture features for channels coming through the cable box to the TV's AUX input jack. For example, when you switch the TV's input to AUX — to select the cable box input — the picture displays only in the left window. For example, if you turn on Twin View, you can watch cable channels coming into the VHF/UHF jack in the right window, but you cannot swap the pictures between the left and right windows.

### To connect the cable box and cable

- 1 Connect the cable from your cable company to the TV's VHF/UHF jack.
- 2 Use a coaxial cable to connect the TV's TO CONVERTER jack to the cable box's input jack. (The TV's internal converter lets you switch between unscrambled signals coming straight into the TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.)
- 3 Use a coaxial cable to connect the cable box's output jack to the TV's AUX jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

If you have a digital cable box, you cannot use this connection because the TO CONVERTER jack is not compatible with digital cable boxes.



### Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 72.
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (unscrambled channels) and AUX (scrambled) inputs.

# Cable Box Only

For best results, use this connection if:

- ☐ Your cable company scrambles all channels, which requires you to use a cable box.
- ☐ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:

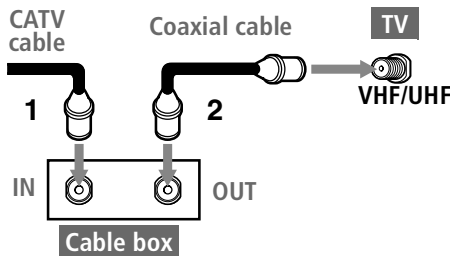
- ☐ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

## About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features.. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Cable" connection on page 18 instead.

## To connect the cable box

- 1 Connect the CATV cable to the cable box's input jack.
- 2 Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.



## Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 72.

## Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:

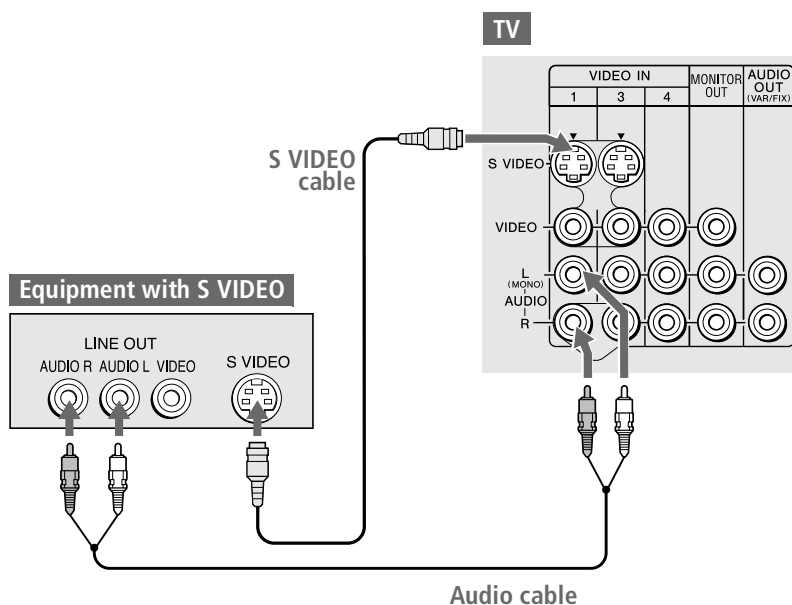
If You Are Connecting	See Page
VCR and Cable	22
VCR and Cable Box	24
Two VCRs for Tape Editing	26
Satellite Receiver	28
Satellite Receiver and VCR	30
DVD Player with Component Video Connectors	32
DVD Player with S VIDEO and Audio Connectors	34
Camcorder	35
Audio Receiver	36

### About Using S VIDEO



If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

#### Example of an S VIDEO Connection



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

## VCR and Cable

For best results, use this connection if:

- ❑ Your cable company does not require you to use a cable box.

### About Using This Connection with Dual Picture (Twin View, etc.) Features

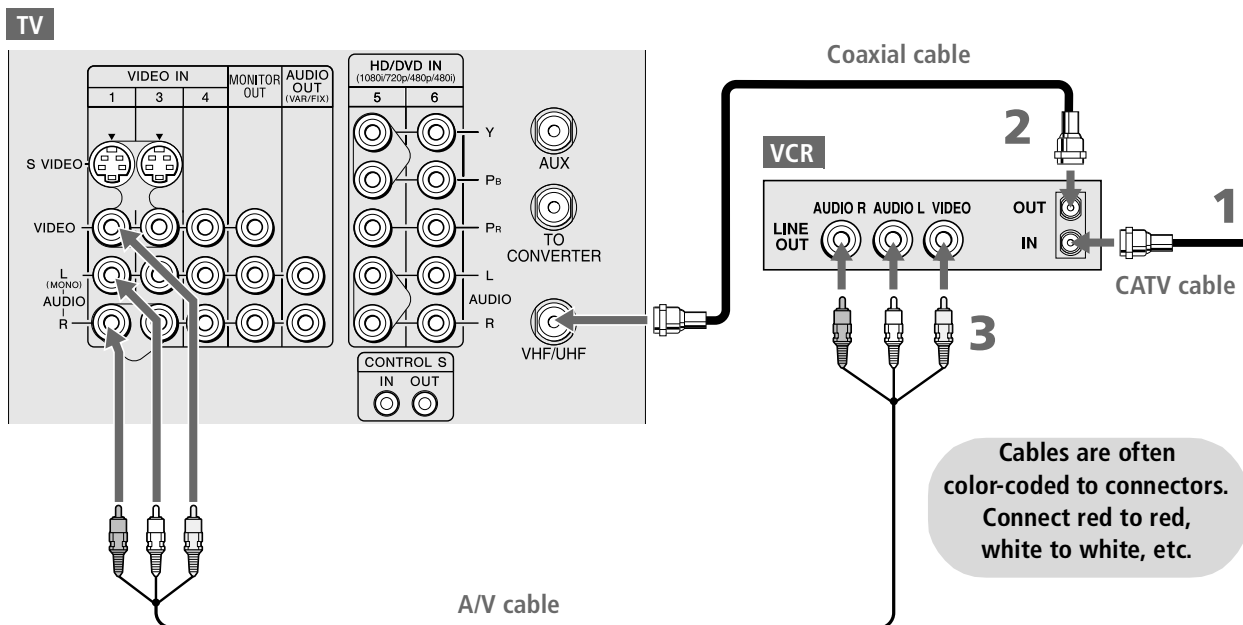
With this connection, you can use all the dual picture features.

To connect the VCR and cable

- 1 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 2 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.
- 3 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.



Using  
S VIDEO jacks?  
See page 21.



## Notes on Using This Connection

<i>To Do This ...</i>	<i>Do This ...</i>
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (VHF/UHF in the illustration).
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on pages 43-44.
Activate the TV remote control to operate the VCR	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See “Operating a VCR” on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

## VCR and Cable Box

For best results, use this connection if:

- ❑ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

### About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

With this connection you can:

- ❑ Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see “Programming the Remote Control” on page 43.)
- ❑ Use the TV remote control to change channels coming directly into the TV’s VHF/UHF jack. (The TV’s tuner provides a better signal than the cable box.)
- ❑ Record channels coming through the cable box and channels coming directly into the TV.

To connect a VCR and cable box, you need:

- ❑ A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.



**DIGITAL CABLE BOX USERS:** If you are connecting a digital cable box, you will need a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.

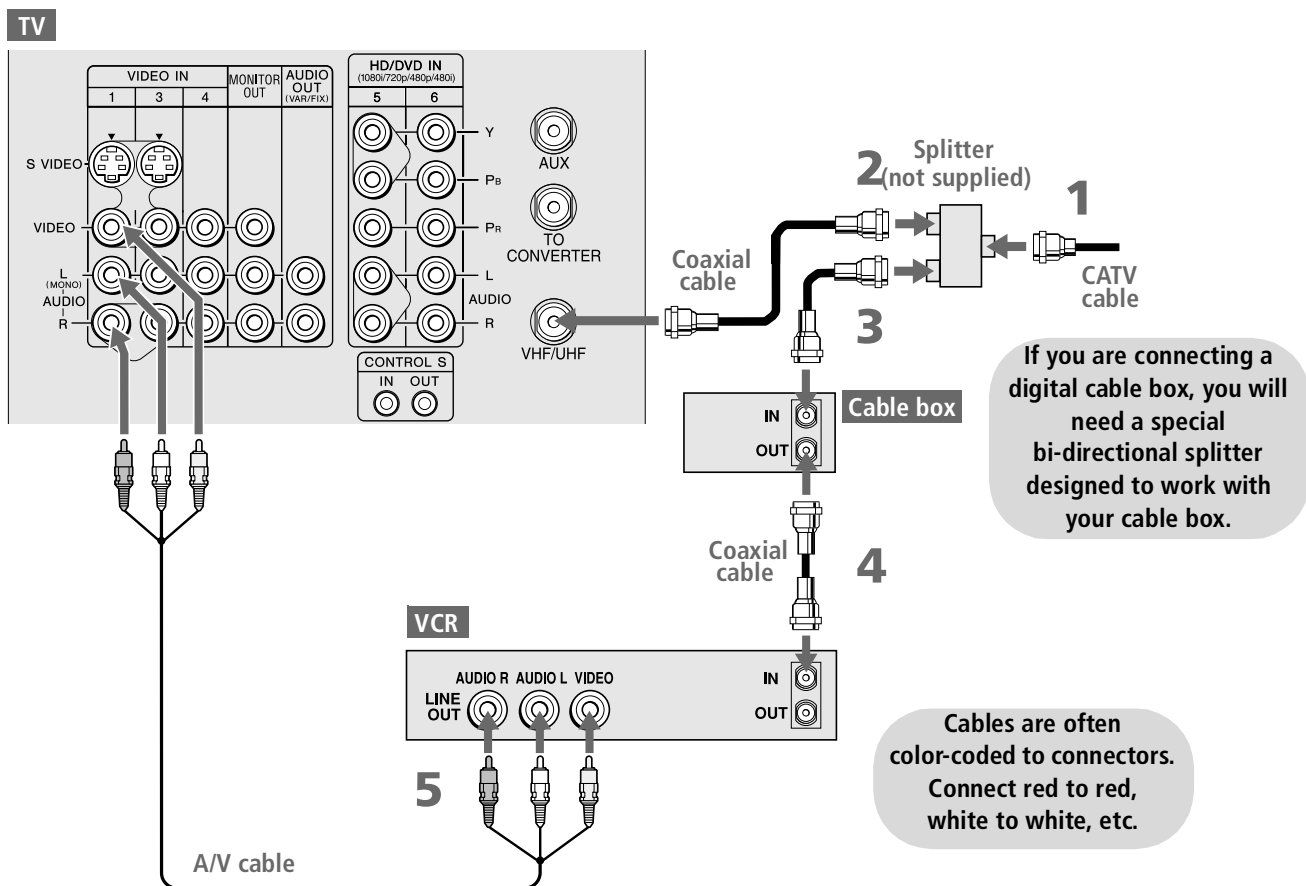
- ❑ Three coaxial cables.
- ❑ One A/V cable or one S VIDEO cable with audio cables.

To connect the VCR and cable box

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Use a coaxial cable to connect one of the splitter’s two output jacks to the TV’s VHF/UHF jack.
- 3 Use a coaxial cable to connect the splitter’s other output jack to the cable box’s input jack.
- 4 Use a coaxial cable to connect the cable box’s output jack to the VCR’s RF input jack.
- 5 Use an A/V cable to connect the VCR’s A/V output jacks to the TV’s A/V input jacks.
- 6 Run the Auto Setup program, as described in “Setting Up the Channel List” on page 38.



Using  
S VIDEO jacks?  
See page 21.



### Notes on Using This Connection

To Do This ...	Do This ...
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (UHF/VHF in the illustration).
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box or VCR	For the cable box, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control specific cable box and VCR functions with the TV remote control	See "Operating a Cable Box" on page 63 and "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

## Two VCRs for Tape Editing

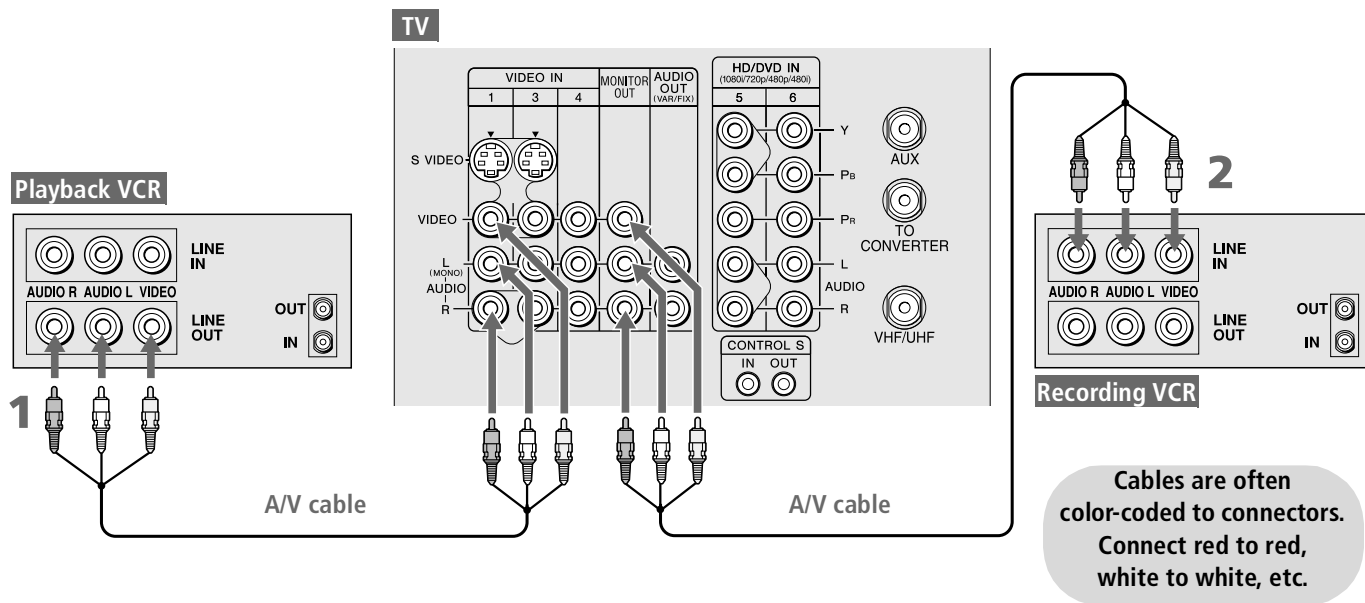


Using  
S VIDEO jacks?  
See page 21.

Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

### To connect two VCRs for tape editing

- 1 Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.
- 2 Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.



## Notes on Using This Connection

<i>To Do This ...</i>	<i>Do This ...</i>
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration above).
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on pages 43-44.
Activate the TV remote control to operate the VCR(s)	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See “Operating a VCR” on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

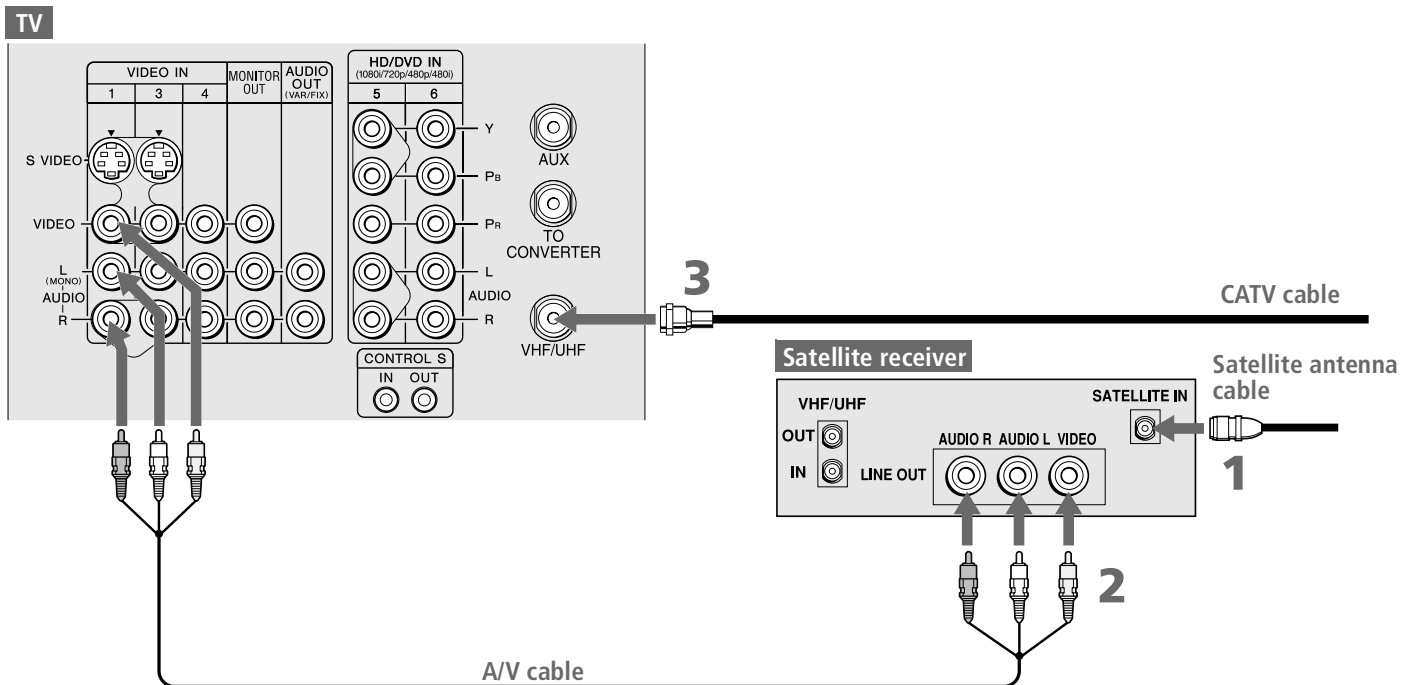
## Satellite Receiver



Using  
S VIDEO jacks?  
See page 21.

To connect a satellite receiver

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.
- 3 Connect a CATV cable from your cable or antenna to the TV's VHF/UHF jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.



Cables are often  
color-coded to connectors.  
Connect red to red,  
white to white, etc.

## Notes on Using This Connection

<i>To Do This ...</i>	<i>Do This ...</i>
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver	Press SAT/CABLE FUNCTION.
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

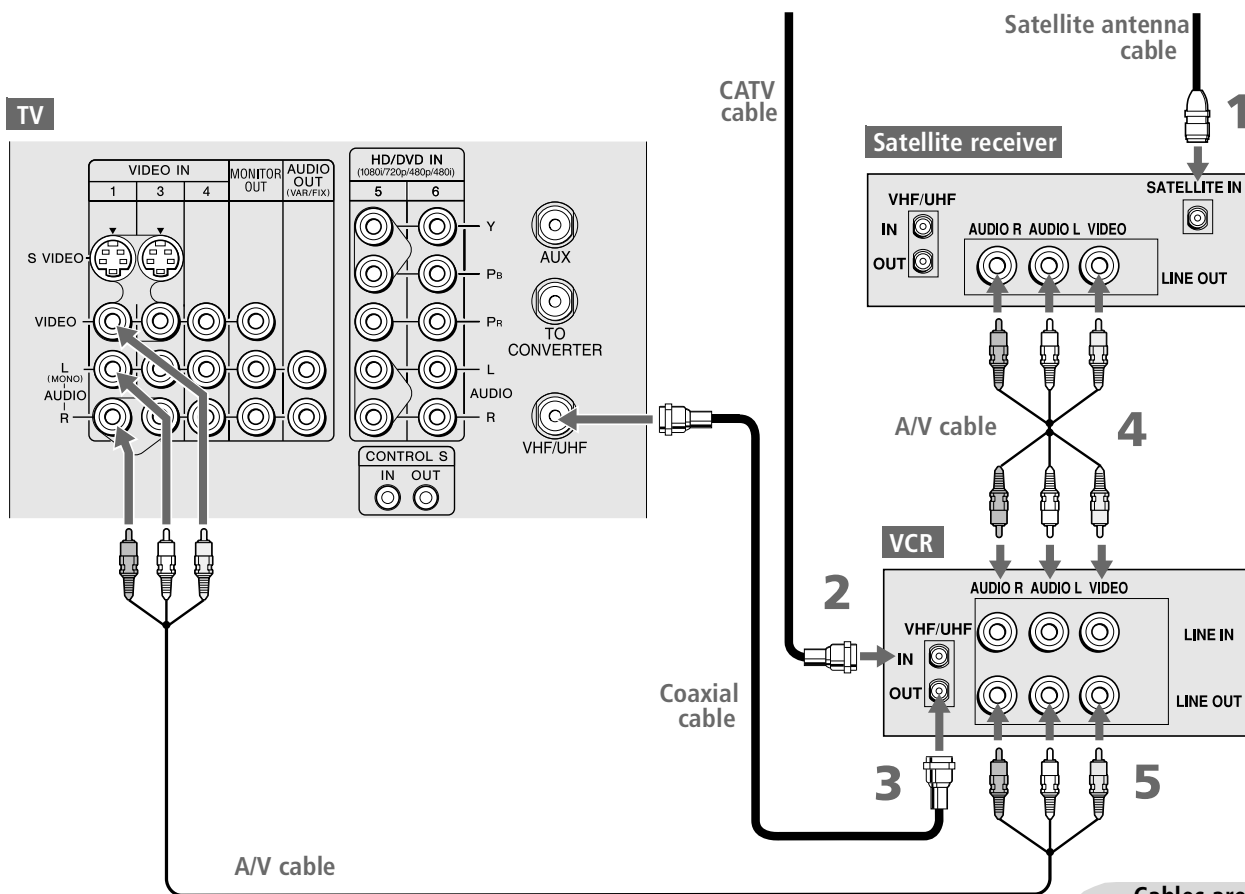
## Satellite Receiver and VCR



Using  
S VIDEO jacks?  
See page 21.

To connect a satellite receiver and VCR

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 3 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.
- 4 Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.
- 5 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.



Cables are often  
color-coded to connectors.  
Connect red to red,  
white to white, etc.

## Notes on Using This Connection


<i>To Do This ...</i>	<i>Do This ...</i>
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).  The VCR must be turned on and set to the satellite receiver's line input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control satellite receiver and VCR functions with the TV remote control	See "Operating a Satellite Receiver" on page 62 and "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

## DVD Player with Component Video Connectors

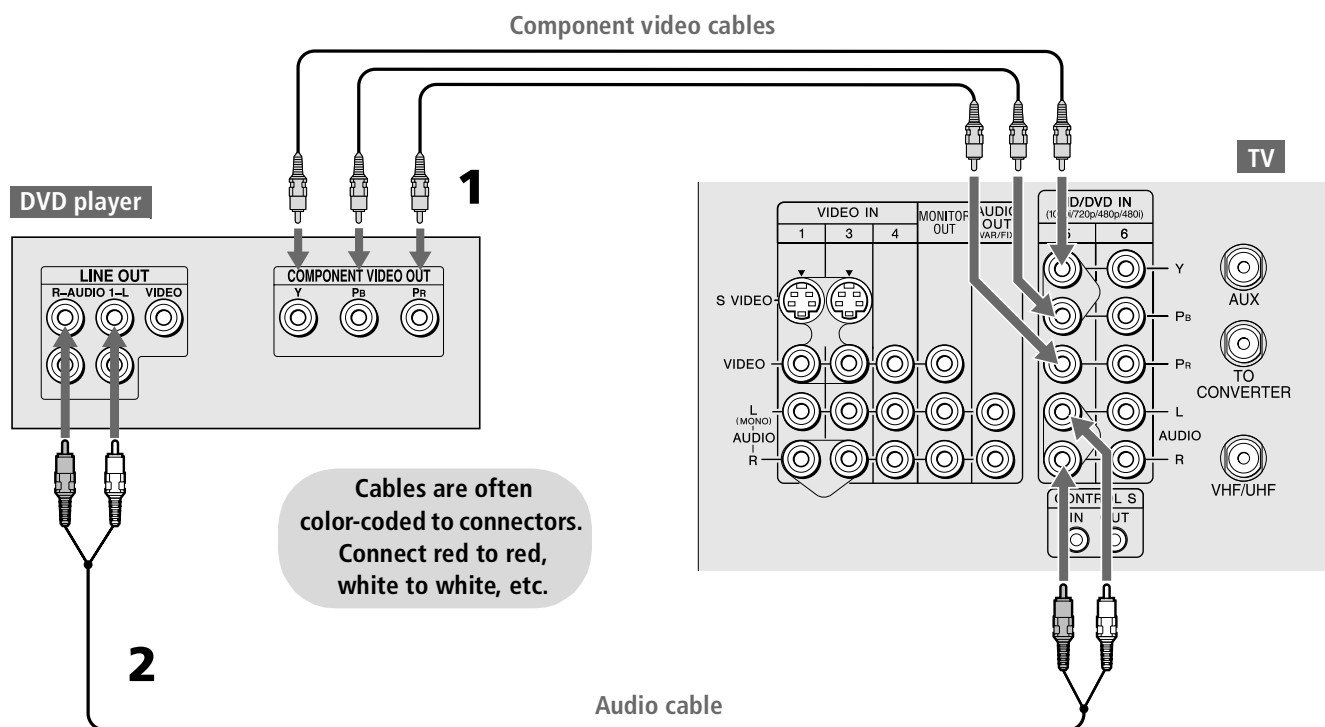
For best results, use this connection if your DVD player has component video (Y, P<sub>B</sub>, P<sub>R</sub>) jacks.

To connect a DVD player with component video connectors

- 1 Use three separate component video cables to connect the DVD player's Y, P<sub>B</sub> and P<sub>R</sub> jacks to the Y, P<sub>B</sub> and P<sub>R</sub> jacks (VIDEO 5) on the TV.

 The Y, P<sub>B</sub> and P<sub>R</sub> jacks on your DVD player are sometimes labeled Y, C<sub>B</sub> and C<sub>R</sub>, or Y, B-Y and R-Y. If so, connect the cables to like colors.

- 2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.



## Notes on Using This Connection

<i>To Do This ...</i>	<i>Do This ...</i>
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 63.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.



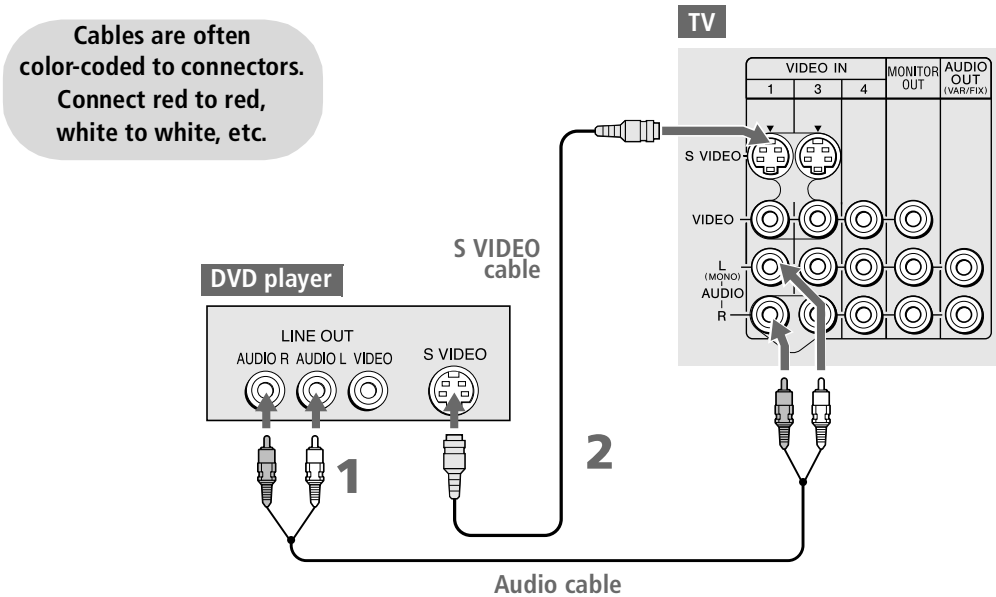
**You cannot record the signal from any equipment connected into the Y, PB, PR jacks.**

# DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, P<sub>B</sub>, P<sub>R</sub>) jacks.

To connect a DVD player with A/V connectors

- 1 Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.
- 2 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



## Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 63.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

## Camcorder

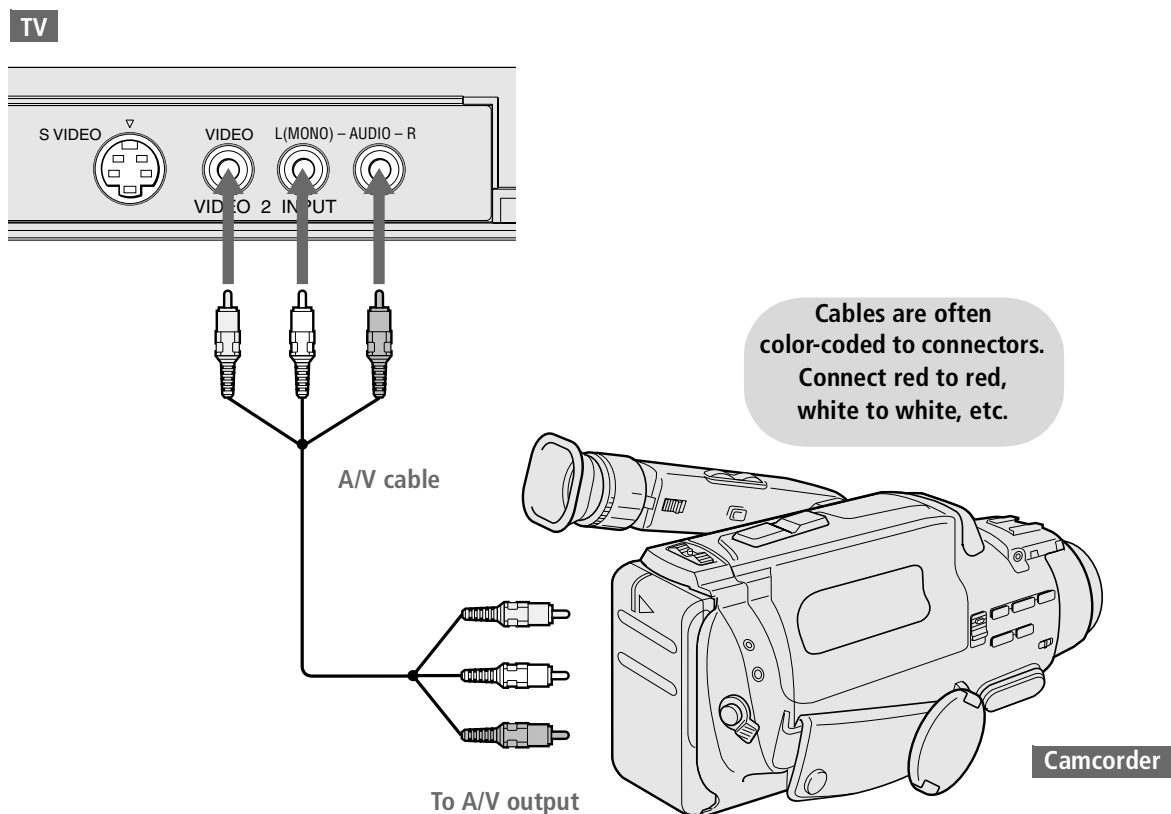


Using  
S VIDEO jacks?  
See page 21.

For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

### To connect a camcorder

- 1 Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.



If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

### Notes on Using This Connection

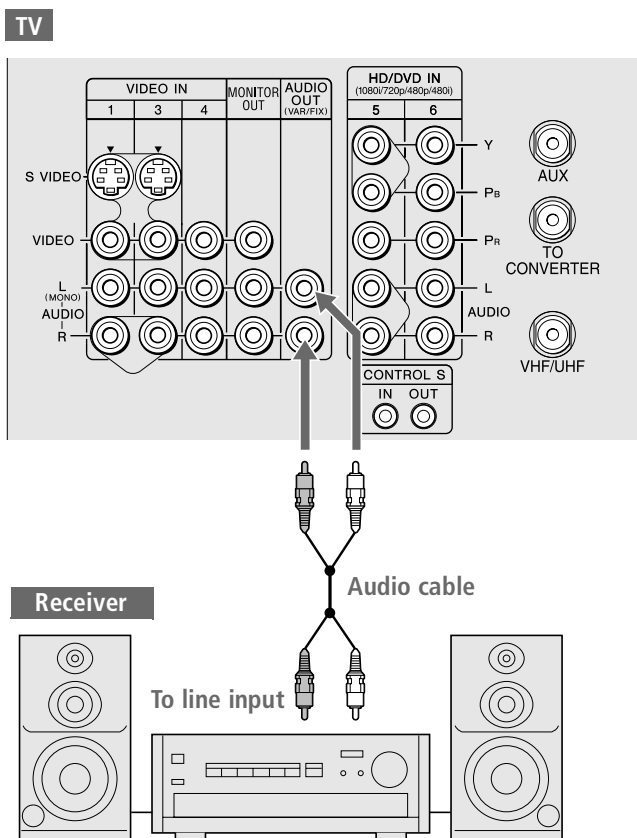
To Do This ...	Do This ...
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

## Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

### To connect an audio system

- 1 Use an audio cable to connect the TV's audio output jacks to the audio receiver's line input jacks.



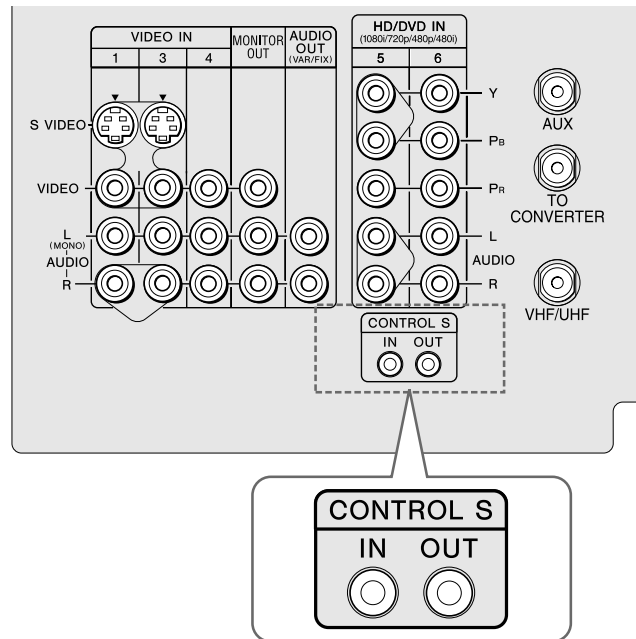
- 2 Using the TV's Audio Menu, set the **Speaker** option to **Off**. Then set the **Audio Out** option to **Fixed** or **Variable**, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 68.
- 3 Turn on the audio receiver, and then set the receiver's line input to the jack into which you connected the TV.

## Using the **CONTROL S** Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.



## Setting Up the Channel List

After you finish connecting your TV, you need to run Auto Setup to set up your channels. The Auto Setup screen appears when you turn on your TV for the first time after hooking it up. If you do not want to set up the channels at this time, you can do it later by selecting the Auto Program option in the Channel Menu (see page 72).



The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

### Using Auto Setup

- 1 Press POWER to turn on the TV.
- 2 Press TV FUNCTION on the remote control.
- 3 To continue running Auto Setup, press CH+. To exit Auto Setup, press CH-.

Auto Setup automatically creates a list of receivable channels. When finished, the lowest numbered channel is displayed.

#### To reset the TV to factory settings

- 1 Press POWER to turn on the TV.
- 2 Hold down RESET on the remote control.
- 3 Press TV POWER on the TV. (The TV will turn itself off, then back on.)
- 4 Release RESET.

## Specifications

Picture Tube	FD Trinitron® tube	
Antenna	75 ohm external terminal for VHF/UHF	
Television System	NTSC, American TV Standard	
Channel Coverage	VHF	2-13
	UHF	14-69
	CATV	1-125
Power Requirements	120V, 60 Hz	
Inputs/Outputs		
DVI-HDTV	1 terminal, 3.3V T.M.D.S., 50 ohms  The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.	
Video (IN)	4 total (1 on front panel)	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	3 total (1 on front panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	7 total (1 on front panel)	500 mVrms (100% modulation) Impedance: 47 kilohm
Component Video Input	2 (Y, P <sub>B</sub> , P <sub>R</sub> )	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative; P <sub>B</sub> : 0.7 Vp-p, 75 ohms P <sub>R</sub> : 0.7 Vp-p, 75 ohms
CONTROL S (IN/OUT)	1	
Variable/Fixed Audio (OUT)	1	More than 408 mVrms at the maximum volume setting (Variable) More than 408 mVrms (Fixed) Impedance (output): 2 kilohms
Supplied Accessories	Remote Control	RM-Y191
	AA (R6) Batteries	2 supplied for remote control
Visible Screen Size	KV-30HS510	30 in (762 mm) picture measured diagonally
	KV-34HS510	34 in (863.6mm) picture measured diagonally
Actual CRT Size	KV-30HS510	32 in (812.8 mm) picture measured diagonally
	KV-34HS510	36 in (914.4 mm) picture measured diagonally
Speaker Output	7.5 W x 2 + 15 W subwoofer	
Dimensions (W x H x D)	KV-30HS510	898 x 576 x 564 mm (35 3/8 x 22 3/4 x 22 1/4 in)
	KV-34HS510	994 x 622 x 591 mm (39 1/8 x 24 1/2 x 23 1/4 in)
Mass	KV-30HS510	76 kg (167 lbs, 9 oz)
	KV-34HS510	91 kg (201 lbs)
Power Consumption	In Use	280 W
	In Standby	1 W

Design and specifications are subject to change without notice.

## Optional Accessories

- ☐ A/V Cable (VMC-810/820/830 HG)
- ☐ Audio Cable (RKC-515HG)
- ☐ Component Video Cable (VMC-10/30 HG)
- ☐ TV Stand for KV-30HS510: SU-30HS1  
TV Stand for KV-34HS510: SU-34HS1
- ☐ Memory Stick media: 8 MB (MSA-8A); 16 MB (MSA-16A); 32 MB (MSA-32A); 64 MB (MSA-64A); 128 MB (MSA-128A)

# LIMITED WARRANTY

This warranty is applicable to U.S. residents only. If you are a Canadian resident, see the separately enclosed warranty for your product.

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship, subject to any conditions set forth as follows:

1. **LABOR:** For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.
2. **PARTS:** In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year (color picture tube- two (2) years). After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.
3. **ACCESSORIES:** Parts and labor for all accessories are for one (1) year.

In-home diagnostic warranty service is provided during the initial 90 day period for 19" (measured diagonally), or larger screen size through a Sony authorized service facility.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

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REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

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Some states do not allow the exclusion or limitation of incidental or consequential damages, or allows limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call:

**Sony Customer Information Service Center**

1-(800)-222-7669

Or visit the Sony Web Site:

[www.sony.com](http://www.sony.com)

For an accessory or part not available from your authorized dealer, call:

1-(800)-488-SONY(7669)